



From Research to Discovery

Virology

Virology-related antibodies
from CovalAb

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Like living cells, viruses have a genome comprised of nucleic acids, either DNA or RNA, with a coat of unique proteins wrapped around that genome; therefore each virus can be identified as belonging to a particular “species”. But unlike living cells, viruses do not produce their own energy (metabolism) nor do they replicate (reproduction) independently of a host cell.

Viruses can only replicate within another living cell, using its “machinery”. After a virus has invaded a host organism, it enters a cell and hijacks its organelles, tricking them into forming a viral assembly line that creates several new virus particles, usually killing the cell in the process. Some viruses send out their progeny a few at a time whilst others push the cell to produce so many viral progeny that it bursts, expelling new particles that then invade neighbouring cells, repeating the process (1).

Viruses penetrate cells via interaction with specific receptors expressed by the host cell. These receptors determine the host and tissue tropism of the virus.

Knowing how viruses interact with host cells helps us to study their origin and how to develop new strategies for potential vaccination or treatment. Appearance of new dangerous viruses like the hCoV-EMC — novel human coronavirus — makes the discovery of how viruses infect cells a priority (2). For other viruses like HIV, 30 years of research are still not enough to find a way to cure AIDS. Although the mechanisms used by the virus are characterised in many aspects (fig 1), there are still lots of things to discover to eradicate these public enemies that are viruses.

To help researchers every day in this challenge, CovalAb offers a wide range of specific antibodies against viral proteins from several families.

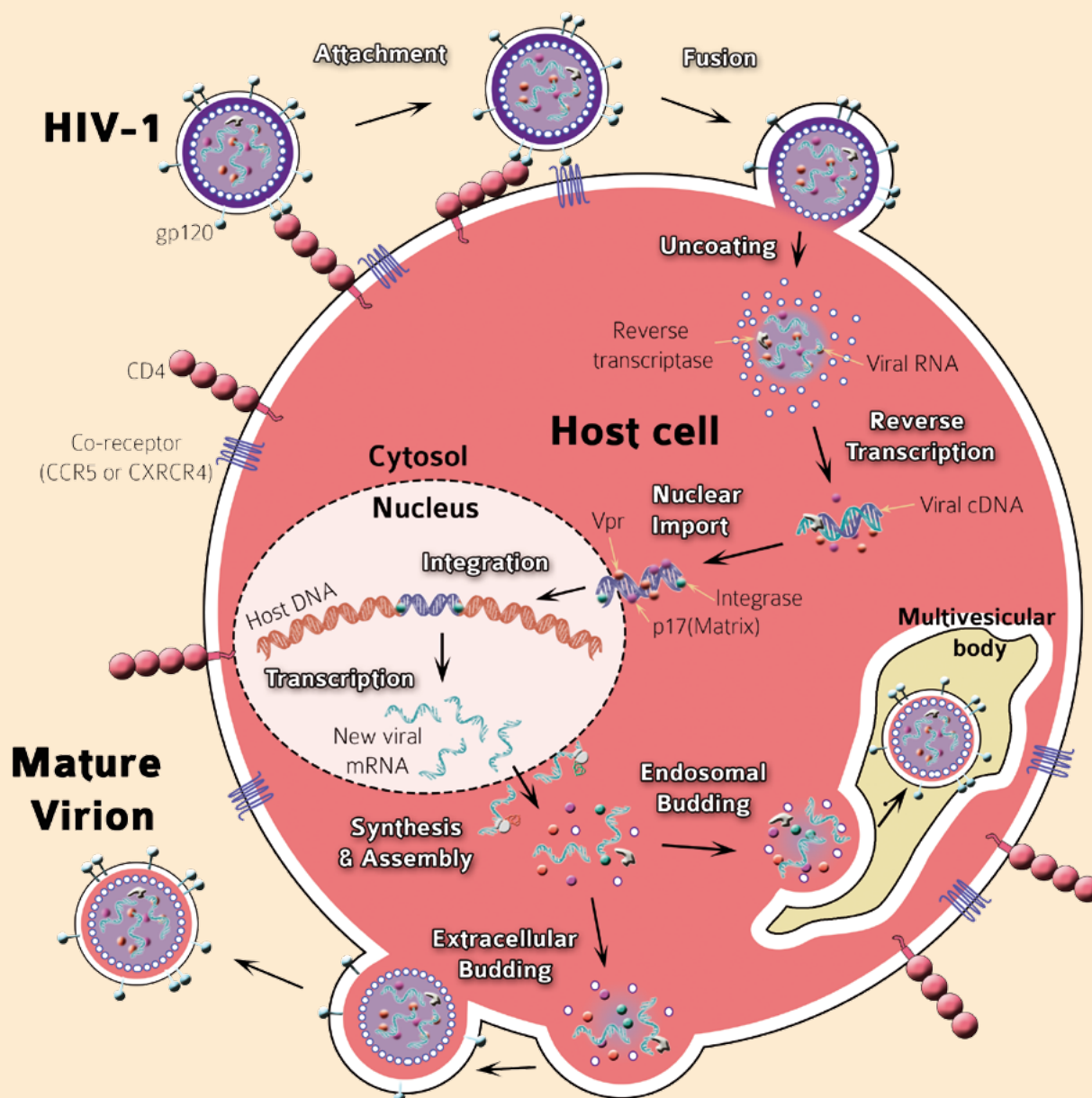


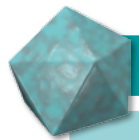
Figure 1: HIV replication cycle

1 : Crawford D.H., Oxford Univ Press Inc NY (2001)
2 : Raj V.S. et al., Nature 495, 251-254 (2013)



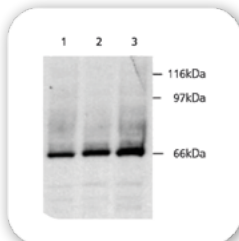
dsDNA virus — Antibodies

Target	Host	Species	Applications	Cat N°
Adenovirus	Rabbit	Ad	WB	pab60007
Adenovirus 3	Rabbit	Ad	WB	pab51056
Adenovirus 9 E4 ORF1 (C-Terminus)	Rabbit	Ad	ELISA	pab80032
Epstein Barr Virus (1H1)	Mouse	HV	WB, IF	mab60580
Epstein Barr Virus (4A8)	Mouse	HV	WB, IF	mab60581
Herpes simplex I/II (HP12.6)	Mouse	HV	ELISA, IF	mab60221
Herpes simplex I (HP1.3)	Mouse	HV	ELISA, IF	mab60219
Herpes simplex II (HP82.5)	Mouse	HV	ELISA, IF	mab60223
Herpes simplex II (HP105.4)	Mouse	HV	ELISA, IF	mab60222
Herpes simplex I (HP5.2)	Mouse	HV	ELISA, IF	mab60220
Hyaluronan Synthase	Rabbit	PBCV-1	ELISA, WB	pab0432
LANA2 (CM-A807)	Mouse	HV	ELISA, IF, IHC, IP, WB	mab50074
LANA2 (CM-A807) [Biotin]	Mouse	HV	IF, IP, WB	mab50570
LANA2 (CM-A807) [DyLight 650]	Mouse	HV	IF, IP, WB	mab50571
LANA2 (CM-A807) [DyLight 488]	Mouse	HV	IF, IP, WB	mab50572
LANA2 (CM-A807) [DyLight 550]	Mouse	HV	IF, IP, WB	mab50574
LANA2 (CM-A807) [HRP]	Mouse	HV	IF, IP, WB	mab50573
Serine/Threonine-Protein Kinase US3	Rabbit	HV	ELISA, WB, ICC	pab0632

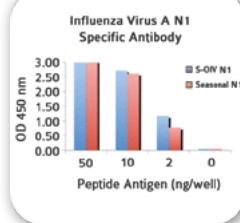


ssDNA virus — Antibodies

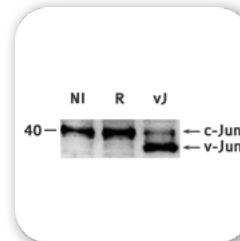
Target	Host	Species	Applications	Cat N°
Adeno-Associated Virus / AAV	Rabbit	AAV	WB	pab51053
AAV4 VP3	Rabbit	AAV	WB	pab51054
AAV5 VP3	Rabbit	AAV	WB	pab51055



Anti-LANA2 antibody WB staining of lysates (30 µg) infected with (1) BCBL-1 (KSHV+) (2) BC-1 (KSHV+/EBV+) or (3) BCP-1 (KSHV+). Antibody mab50074, concentration 2 µg/mL.

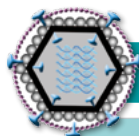


Anti-H1N1 Neuraminidase antibody ELISA staining of 50, 10, 2 and 0 ng/well blocking and corresponding peptides. Antibody pab80909, concentration 1 µg/mL.



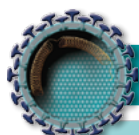
Anti-v-Jun antibody WB staining of (NI) non-infected CEF cells or CEF cells infected with (R) replication competent retrovirus Rcas or (vJ) Rcas-v-Jun.

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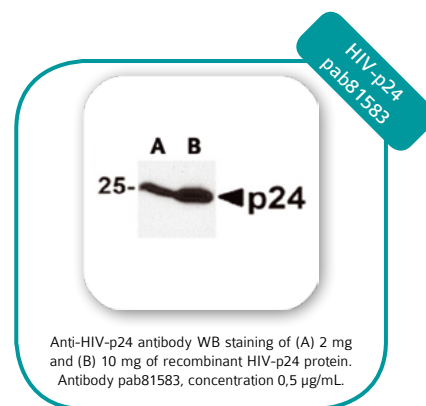
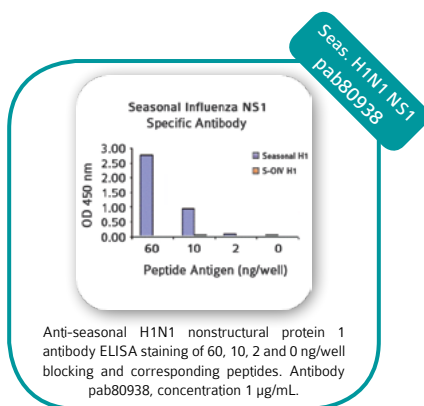
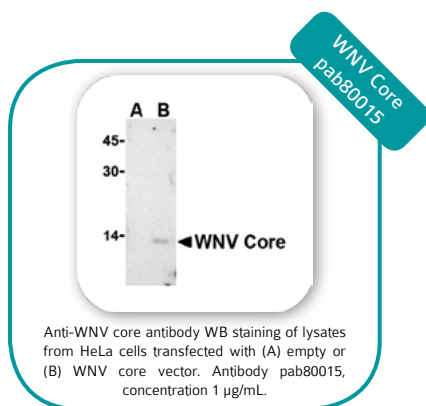
dsRNA virus — Antibodies

Target	Host	Species	Applications	Cat N°
Rotavirus (2B4)	Mouse	Ro V	WB, IHC, IF	mab0036-P
Rotavirus (A2)	Mouse	Ro V	WB, ICC, IF	mab0037-P
Rotavirus Group Antigen (3C10)	Mouse	Ro V	WB, ELISA	mab60615

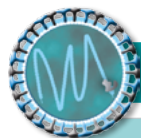


(+) ssRNA virus — Antibodies

Target	Host	Species	Applications	Cat N°
Hepatitis A Virus (MK-01)	Mouse	Hep V	ELISA, IHC	mab60216
Hepatitis C Virus	Rabbit	Hep V	WB	pab60156
Hepatitis C Virus	Rabbit	Hep V	WB	pab60157
Hepatitis C Virus Core Protein	Rabbit	Hep V	WB	pab51059
Hepatitis E Virus	Rabbit	Hep V	WB	pab51061
Hepatitis E Virus	Rabbit	Hep V	WB	pab60158
Hepatitis G Virus	Rabbit	Hep V	WB	pab51062
Hepatitis G Virus	Rabbit	Hep V	WB	pab60159
Raspberry Bushy Dwarf Virus	Chicken	Id V	ELISA	pab60341
Rhinovirus 16 (R16-7)	Mouse	En V	WB, IHC	mab60614
Rubella Virus (5D11)	Mouse	RUBV	ELISA, WB, IHC	mab0038-P
SARS Envelope	Rabbit	CV	ELISA	pab80022
SARS Envelope (C-Terminus)	Rabbit	CV	ELISA	pab80023
SARS Matrix	Rabbit	CV	ELISA	pab80020
SARS Matrix (C-Terminus)	Rabbit	CV	ELISA	pab80021
SARS Spike	Rabbit	CV	ELISA	pab80001
SARS Spike	Rabbit	CV	ELISA	pab80002
SARS Spike	Rabbit	CV	ELISA	pab80003
SARS Spike	Rabbit	CV	ELISA	pab80004
SARS Spike (C-Terminus)	Rabbit	CV	ELISA	pab80019
West Nile Virus Core	Rabbit	FV	ELISA	pab80015
West Nile Virus Core (C-Terminus)	Rabbit	FV	ELISA, WB, ICC	pab80219
West Nile Virus Envelope	Rabbit	FV	ELISA	pab80016
West Nile Virus Envelope	Rabbit	FV	ELISA	pab80017
West Nile Virus Envelope (C-Terminus)	Rabbit	FV	ELISA	pab80018
West Nile Virus Matrix	Rabbit	FV	ELISA	pab80013
West Nile Virus Matrix (C-Terminus)	Rabbit	FV	ELISA	pab80014

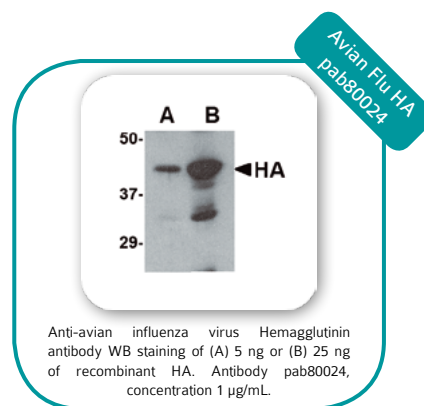
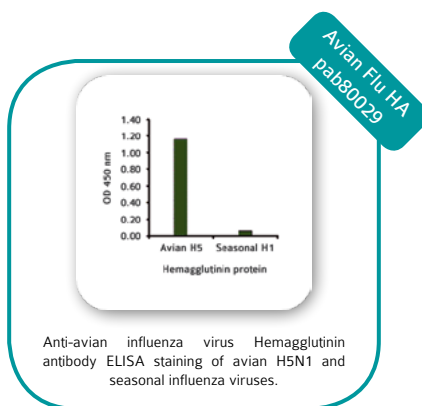
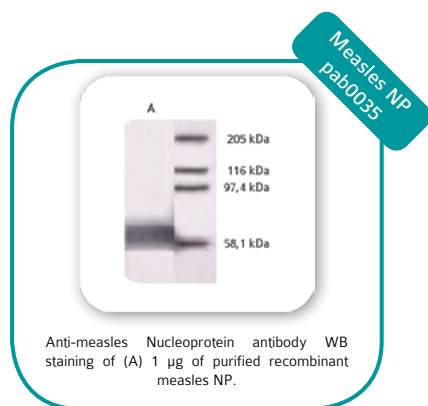


Applications abbreviations – ELISA: enzyme-linked immunosorbent assay - ICC: immunocytochemistry - IF: immunofluorescence - IHC: immunohistochemistry - IP: immunoprecipitation - WB: western blot — **Species abbreviations** – AAV: Adeno-associated virus - Ad: Adenovirus - BunV: Bunyavirus - CV: Coronavirus - EnV: Enterovirus - FiV: Filovirus - Flu V: Influenza virus - FV: Flavivirus - Hep V: Hepatitis virus - HV: Herpesvirus - IdV: Idaeovirus - KSHV: Kaposi's sarcoma-associated herpesvirus - PBCV-1: Paramyxovirus - Ph V: Phlebovirus - PMV: Paramyxovirus - RhabV: Rhabdovirus - RoV: Rotavirus - RUBV: Rubella virus - RV: Retrovirus.

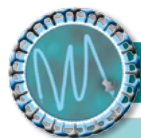


(-) ssRNA virus — Antibodies

Target	Host	Species	Applications	Cat N°
Avian Influenza Hemagglutinin	Rabbit	Flu V	ELISA	pab80012
Avian Influenza Hemagglutinin	Goat	Flu V	ELISA	pab80029
Avian Influenza Hemagglutinin	Goat	Flu V	ELISA	pab80026
Avian Influenza Hemagglutinin	Goat	Flu V	ELISA	pab80025
Avian Influenza Hemagglutinin (N-Terminus)	Goat	Flu V	ELISA	pab80024
Avian Influenza Neuraminidase	Rabbit	Flu V	ELISA	pab80010
Avian Influenza Neuraminidase (C-Terminus)	Rabbit	Flu V	ELISA	pab80011
Avian Influenza Nonstructural Protein 1 (C-Terminus)	Rabbit	Flu V	ELISA	pab80027
Avian Influenza Nonstructural Protein 2	Rabbit	Flu V	ELISA	pab80028
BRSV	Rabbit	PMV	WB	pab51063
BRSV	Rabbit	PMV	WB	pab51064
H1N1 Influenza A Virus (11F8)	Mouse	Flu V	ELISA, WB, IF	mab0087-P
H1N1 Influenza A Virus (11H7)	Mouse	Flu V	ELISA, WB, IF	mab0086-P
H1N1 Influenza A Virus (14B11)	Mouse	Flu V	ELISA, WB, IF	mab0088-P
H1N1 Influenza A Virus (5C1)	Mouse	Flu V	ELISA, WB, IF	mab0085-P
H1N1 Influenza A Virus Nucleocapsid Protein (NP)	Rabbit	Flu V	ELISA, WB, IF	pab0697
H1N1 Neuraminidase	Rabbit	Flu V	ELISA	pab80909
HA-Tag	Goat	Flu V	WB, ELISA, IHC, ICC	pab60432
HA-Tag	Rabbit	Flu V	WB, ELISA, IHC, ICC	pab60433
HA-Tag	Rabbit	Flu V	ELISA, WB, IHC	pab0699
HA-Tag	Rabbit	Flu V	ELISA, WB, IHC	pab0699-P
HA-Tag [Agarose]	Goat	Flu V	IP	pab60402
HA-Tag [FITC]	Goat	Flu V	IHC, ICC	pab60403
HA-Tag [HRP]	Rabbit	Flu V	ELISA, WB, IHC	pab0699-HRP
HA-Tag [HRP]	Goat	Flu V	WB, ELISA, IHC, ICC	pab60404
HA-Tag [HRP]	Rabbit	Flu V	WB, ELISA, IHC, ICC	pab60405
Hemagglutinin	Mouse	Flu V	ELISA, WB	mab80026
Hemagglutinin	Mouse	Flu V	ELISA, WB	mab80027
Human Meta-pneumovirus (hMPV) (5E5)	Mouse	PMV	ELISA, WB, ICC	mab0039-P
Influenza A	Rabbit	Flu V	WB	pab52416
Influenza A (9G8)	Mouse	Flu V	WB, IHC, ICC,...	mab0042-P
Influenza A Hemagglutinin (C102)	Mouse	Flu V	ICC	mab60266
Influenza A Nucleoprotein (F8)	Mouse	Flu V	ELISA, ICC	mab60267
Influenza A Virus H1N1	Rabbit	Flu V	WB	pab60184
Influenza B (1C2)	Mouse	Flu V	ELISA, WB, IHC	mab0043-P

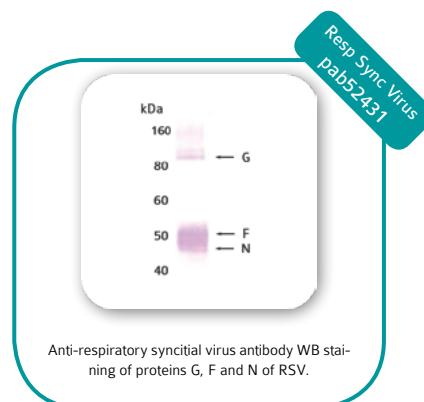
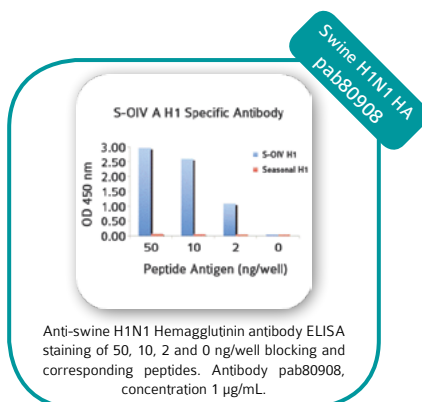
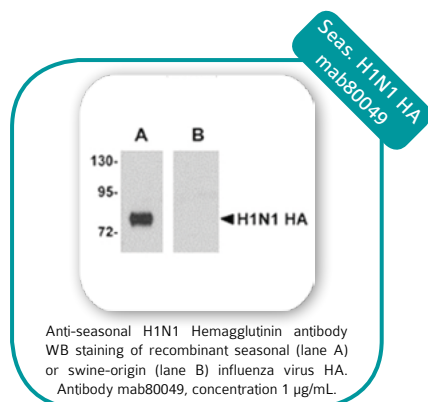


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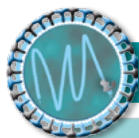


(-) ssRNA virus — Antibodies (continued)

Target	Host	Species	Applications	Cat N°
Influenza B Neuraminidase (B14)	Mouse	Flu V	ELISA, B/N	mab60268
Influenza B Neuraminidase (B19)	Mouse	Flu V	ELISA, B/N	mab60269
Influenza B Neuraminidase (B3)	Mouse	Flu V	ELISA, B/N	mab60270
Influenza B Virus Glycoprotein NB	Rabbit	Flu V	ELISA, WB, IF	pab0659
La Crosse Virus (10G5.4)	Mouse	Bun V	WB, IP, ELISA, IF, B/N	mab60592
La Crosse Virus (4A5.5)	Mouse	Bun V	WB, IP, ELISA, IF, B/N	mab60593
La Crosse Virus (8C2.2)	Mouse	Bun V	WB, IP, ELISA, IF, B/N	mab60594
La Crosse Virus (9E7.2)	Mouse	Bun V	WB, IP, ELISA, IF, B/N	mab60595
Marburg Virus (FM213)	Mouse	Fil V	WB, ELISA	mab60597
Marburg Virus (FM214)	Mouse	Fil V	WB, ELISA	mab60598
Marburg Virus (FM215)	Mouse	Fil V	WB, ELISA	mab60599
Measles Nucleoprotein (NP)	Rabbit	PMV	ELISA, IHC, WB	pab0035
Measles Nucleoprotein (NP) (2F3)	Mouse	PMV	ELISA, WB, ICC	mab0032-P
Measles Phospho-Protein (PP) (9H4)	Mouse	PMV	WB, IHC, ICC,...	mab0041-P
Measles Virus Matrix Protein	Rabbit	PMV	ELISA, WB, ICC	pab0674
Measles Virus Matrix Protein	Rabbit	PMV	ELISA, WB, ICC	pab0674-P
Rabies Virus (RV1C5)	Mouse	Rhab V	ELISA, IHC, IF	mab60613
Respiratory Syncytial Virus	Rabbit	PMV	WB	pab60342
Respiratory Syncytial Virus	Rabbit	PMV	WB	pab52431
Respiratory Syncytial Virus (RSV) (2F7)	Mouse	PMV	WB, IHC, ICC,...	mab0040-P
Respiratory Syncytial Virus A2	Rabbit	PMV	WB	pab51066
Respiratory Syncytial Virus M2 Protein	Rabbit	PMV	WB	pab51067
Respiratory Syncytial Virus RSS-2	Rabbit	PMV	WB	pab51065
Rift Valley Fever Virus	Rabbit	Ph V	ELISA	pab80030
Rift Valley Fever Virus (C-Terminus)	Rabbit	Ph V	ELISA	pab80031
Seasonal H1N1 Hemagglutinin	Mouse	Flu V	ELISA, WB	mab80049
Seasonal H1N1 Hemagglutinin	Rabbit	Flu V	ELISA	pab80907
Seasonal H1N1 Neuraminidase	Rabbit	Flu V	ELISA	pab80910
Seasonal H1N1 Nonstructural Protein 1	Rabbit	Flu V	ELISA	pab80938
Seasonal H1N1 Nucleocapsid Protein	Rabbit	Flu V	ELISA	pab80940
Swine H1N1 Hemagglutinin	Rabbit	Flu V	ELISA, WB	pab80906
Swine H1N1 Hemagglutinin	Rabbit	Flu V	ELISA	pab80908
Swine H1N1 Neuraminidase	Rabbit	Flu V	ELISA	pab80911



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(-) ssRNA virus — Antibodies (continued)

Target	Host	Species	Applications	Cat N°
Swine H1N1 Nonstructural Protein 1	Rabbit	Flu V	ELISA	pab80939
VSV-G	Goat	Rhab V	WB, ELISA, IHC, ICC	pab60345
VSV-G	Rabbit	Rhab V	WB, ELISA, IHC, ICC	pab60343
VSV-G [Agarose]	Goat	Rhab V	IP	pab60385
VSV-G [FITC]	Goat	Rhab V	IHC, ICC	pab60386
VSV-G [HRP]	Goat	Rhab V	WB, ELISA, IHC, ICC	pab60387



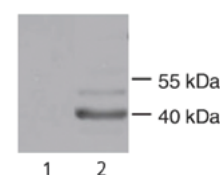
ssRNA-RT virus — Antibodies

Target	Host	Species	Applications	Cat N°
gp120	Goat	RV	ELISA, WB	pab80158
gp120 (N-Terminus)	Rabbit	RV	ELISA, WB	pab80142
HIV-1 gp120 (ANT-151)	Mouse	RV	ELISA	mab60230
HIV-1 gp24 (ANT-152)	Mouse	RV	ELISA	mab60232
HIV-1 p24	Rabbit	RV	ELISA, WB	pab81583
HIV-2 gp39 (ANT-153)	Mouse	RV	ELISA	mab60234
HTLV-1 Tax	Rabbit	RV	WB	pab0865-P
HTLV-1 Tax (1A3)	Mouse	RV	ELISA, WB, IHC	mab0022-P
v-Jun Protein	Rabbit	RV	IHC, WB, EM,...	pab0010

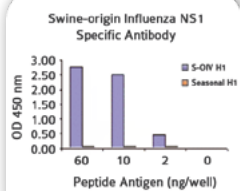


dsDNA-RT virus — Antibodies

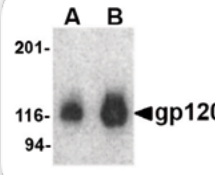
Target	Host	Species	Applications	Cat N°
Hepatitis B Virus (HB5)	Mouse	Hep V	ELISA	mab60217
Hepatitis B Virus (HB6)	Mouse	Hep V	ELISA	mab60218
Hepatitis B Virus preS2	Rabbit	Hep V	WB	pab51058



Anti-HTLV-1 Tax antibody WB staining of lysate from HeLa cells transfected with (1) empty vector, (2) HTLV-1 vector.



Anti-swine H1N1 nonstructural protein 1 antibody ELISA staining of 60, 10, 2 and 0 ng/well blocking and corresponding peptides. Antibody pab80939, concentration 1 µg/mL.



Anti-gp120 antibody WB staining of 1 µg of gp120. Antibody pab80142, concentration (A) 0,5 and (B) 1 µg/mL.

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