

Monkeypox virus (MPXV)



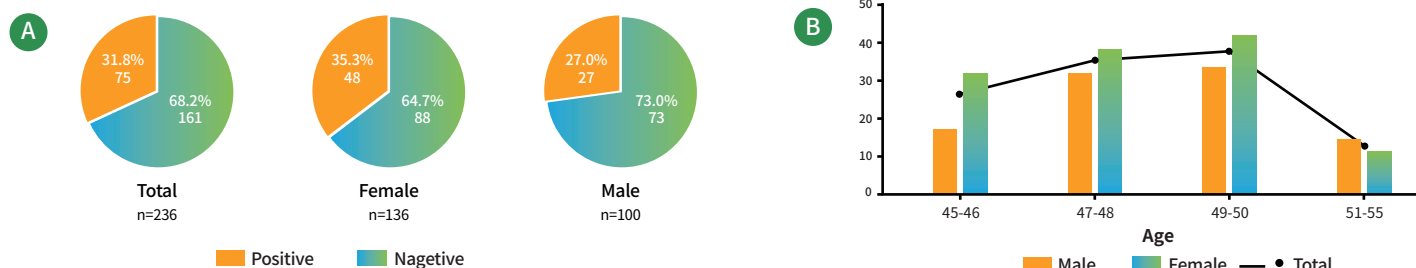
» Monkeypox virus(MPXV) is an enveloped double-stranded DNA virus, and belongs to orthopoxvirus genus in the poxviridae family. Similar to viruses in the same genus, MPXV is likely to replicate uniquely morphological intracellular mature virus(IMV) and extracellular enveloped virus(EEV) in the host's cytoplasm. IMV has solid physical structure facilitating the transmission among hosts. Weaker EEV is coated by envelope to limit immune clearance, which is suitable for intercellular transmission.

Based on known gene sequence of monkeypox virus, FineTest has developed various MPXV - related proteins expressed by E.Coli and ELISA kits. These products are widely applied in immunological research and functional validation.



Various Targets

» Our MPXV ELISA kits cover various species like human, mouse and porcine, and can be applied in detecting serum, plasma, cell culture supernatant and other biological samples etc. Proteins have the clear band without impure proteins, and are suitable for various biological applications.



Cross-reactive seroprevalence of MPXV in population four decades after vaccination with VTT. Analysis by sex (A) and age group for total, male and female individuals (B).Source: Infect Genet Evol. 2023 Sep;113:105477. doi: 10.1016/j.meegid.2023.105477.

Serum samples were collected from 236 adults(45-55 years) and 78 children(0-10 years). All samples were detected using FineTest MPXV IgG ELISA kits. The results show MPVX cross-antibodies are still found in some VTT vaccinees after four decades.

Proteins

Cat.No	Product Name	Host	Expression Region	Tag
P3262	Recombinant A29L	E.Coli	110aa	N-terminal His Tag
P3271	Recombinant Monkeypox Virus A33R	E.Coli	142aa	N-terminal His Tag
P9408	Recombinant A33R	E.Coli	1-142	N-terminal His Tag
P3268	Recombinant A35R	E.Coli	125aa	N-terminal His Tag
P3269	Recombinant E8L	E.Coli	275aa	N-terminal His Tag
P3263	Recombinant L1R	E.Coli	152aa	N-terminal His Tag
P3267	Recombinant M1R	E.Coli	250aa	N-terminal His Tag

Antibodies

Cat.No	Product Name	Host	Clonality	Application
FNab10955	A29L antibody	Rabbit	polyclonal	ELISA, WB
FNab10972	M1R antibody	Rabbit	polyclonal	ELISA, WB
FNab10971	A35R antibody	Rabbit	polyclonal	ELISA, WB
FNab10970	E8L antibody	Rabbit	polyclonal	ELISA, WB
FNab10700	L1R antibody	Rabbit	polyclonal	ELISA, WB

ELISA Kits

Cat.No	Product Name	Sensitivity	Range	Detection Method
EH5237	Human Anti-MPV IgM ELISA Kit	Qualitative	Qualitative	Indirect ELISA
EH5236	Human Anti-MPV IgG ELISA Kit	Qualitative	Qualitative	Indirect ELISA
EH4996	Human Anti-MPV IgG ELISA Kit	1.875ng/ml	3.125-200ng/ml	Indirect ELISA
EH4997	Human Anti-MPV IgM ELISA Kit	0.938ng/ml	1.563-100ng/ml	Indirect ELISA
EM2107	Mouse Anti-MPV IgG ELISA Kit	1.875ng/ml	3.125-200ng/ml	Indirect ELISA
EM2128	Mouse Anti-MPV IgM ELISA Kit	0.938ng/ml	1.563-100ng/ml	Capture ELISA
EP0355	Porcine Anti-MPV IgG ELISA Kit	1.875ng/ml	3.125-200ng/ml	HRP Indirect ELISA