

Reagents for MPXV Assay Development

Monkeypox is a rare disease that is caused by infection with monkeypox virus. Monkeypox virus belongs to the Orthopoxvirus genus in the family Poxviridae. The Orthopoxvirus genus also includes variola virus, vaccinia virus and cowpox virus. Monkeypox was first discovered in 1958 when two outbreaks of a pox-like disease occurred in colonies of monkeys kept for research, hence the name 'monkeypox.'

There are two clades of the Monkeypox virus, the West African clade and the Congo Basin clade. The West African clade is associated with milder clinical presentation while the Congo Basin clade is more pathogenic and associated with greater human-to-human transmission. Human infections with the Monkeypox virus have similar clinical signs to smallpox but in a less severe form. The fatality rate of each clade is 0-6% and 8-13%.

The smallpox vaccine, to some extent, can protect people from infecting with MPXV. Antiviral treatment of accidental smallpox can also be applied to treat MPXV infection. However, people had stopped smallpox vaccination since it disappeared, which means that the current population is generally not immune to smallpox and monkeypox. We still need to do more research on monkeypox virus. Creative Diagnostics has developed a panel of antibodies and antigens (A35R, A29L, A33R, A5L, B6R, C19L, H3L, I1L, L1R, and M1R) to support the MPXV research.

Performance

MPXV Antibodies

- CABT-CS828 and CABT-CS829 can be used as antibody pair for MPXV antigen tests
- More MPXV antibody pairs targeting A35 and A5L will be available soon.
- CABT-NS1653 and CABT-NS1656 are humanized quality control antibodies
- High reproducibility between antibody lots from in-house testing

Cat. No.	Product Name	Target	Isotype	Application
CABT-CS828	Anti-MPXV A29L Mab, Clone C5	Human	IgG	ELISA (Cap)
CABT-CS829	Anti-MPXV A29L Mab, Clone C7	Human	IgG	ELISA (Det)
CABT-CS831	Anti-MPXV A29L Mab, Clone 60	Human	IgG	ELISA
CABT-CS683	Anti-MPXV A29L Mab, Clone U22	Human	IgG	ELISA

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CABT-CS684	Anti-MPXV A29L Mab, Clone U22	Human	IgM	ELISA
CABT-CS619	Anti-MPXV Mab, clone 6D8	Human	IgG1	ELISA, IF
CABT-CS621	Anti-MPXV Mab, clone 6D8	Human	IgM	ELISA, IF
CABT-CS622	Anti-MPXV Mab, clone 6D8	Rabbit	IgG1	ELISA, IF
CABT-CS618	Anti-MPXV Mab, clone 6D8	Mouse	IgG1	ELISA, IF

Neutralizing Antibodies

Cat. No.	Product Name	Target	Isotype	Application
CABT-CS812	Anti-MPXV A33 Mab, Clone UH12	Human	IgG1	ELISA, LFIA, Neut
CABT-CS813	Anti-MPXV B5 Mab, Clone UH13	Human	IgG1	ELISA, LFIA, Neut
CABT-CS814	Anti-MPXV L1 Mab, Clone UH14	Human	IgG1	ELISA, LFIA, Neut
CABT-CS815	Anti-MPXV A25 Mab, Clone UH15	Human	IgG1	ELISA, LFIA, Neut
CABT-CS816	Anti-MPXV A28 Mab, Clone UH16	Human	IgG1	ELISA, LFIA, Neut
CABT-CS817	Anti-MPXV H3 Mab, Clone UH17	Human	IgG1	ELISA, LFIA, Neut
CABT-CS818	Anti-MPXV A29L Mab, Clone 1397	Mouse	IgG2a	ELISA, Neut
CABT-CS819	Anti-MPXV A35R Mab, Clone 1398	Mouse	IgG2a	ELISA, Neut
CABT-CS820	Anti-MPXV E8L Mab, Clone 1396	Mouse	IgG2a	ELISA, Neut
CABT-CS821	Anti-MPXV H3L Mab, Clone 1393	Mouse	IgG2a	ELISA, Neut
CABT-CS822	Anti-MPXV M1R Mab, Clone 1395	Mouse	IgG2a	ELISA, Neut
CABT-CS823	Anti-MPXV M1R Mab, Clone 1394	Mouse	IgG2a	ELISA, Neut

Control Antibodies

Cat. No.	Product Name	Target	Isotype	Application
CABT-NS1653	Anti-MPXV M1R Mab, Clone 3133U24	Human	IgM	ELISA, Control
CABT-NS1654	Anti-MPXV M1R Mab, Clone 3133U25	Human	IgG	ELISA, Control
CABT-NS1656	Anti-MPXV A35L Mab, Clone 3133U27	Human	IgG	ELISA, Control
CABT-NS1655	Anti-MPXV A35L Mab, Clone 3133U26	Human	IgM	ELISA, Control

MPXV Antigens

- >90% as determined by SDS-PAGE
- The antigens are suitable for the detection of IgG and IgM antibodies against MPXV

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Target	Cat. No.	Product Name	Expression System
A5L	DAG-WT774	Recombinant MPXV A5L Protein [His]	<i>E. coli</i>
A23R	DAG-WT780	Recombinant MPXV C23R Protein [His]	<i>E. coli</i>
A28L	DAG-WT777	Recombinant MPXV A28L Protein [His]	<i>E. coli</i>
	DAG-WT778	Recombinant MPXV A28L Protein [His]	HEK293 cells
A29L	DAG-WT759	Recombinant MPXV A29L Protein [His]	<i>E. coli</i>
	DAG-WT999	MPXV A29L Peptide	N/A
A30L	DAG-WT763	Recombinant MPXV A30L Protein [His]	<i>E. coli</i>
A35R	DAG-WT760	Recombinant MPXV A35R Protein [His]	<i>E. coli</i>
	DAG-WT995	Recombinant MPXV A35R Protein [His]	HEK293 cells
B6R	DAG-WT761	Recombinant MPXV B6R Protein [His]	<i>E. coli</i>
	DAG-WT773	Recombinant MPXV B6R Protein [His]	HEK293 cells
B21R	DAG-WT997	MPXV B21R Peptide	N/A
B21R; A29L	DAG-WT764	Recombinant MPXV Chimeric Protein	<i>E. coli</i>
E8L	DAG-WT762	Recombinant MPXV E8L Protein [His]	<i>E. coli</i>
	DAG-WT996	Recombinant MPXV E8L Protein [His]	HEK293 cells
H3L	DAG-WT775	Recombinant MPXV H3L Protein [His]	<i>E. coli</i>
	DAG-WT776	Recombinant MPXV H3L Protein [His]	HEK293 cells
L1R	DAG-WT772	Recombinant MPXV L1R Protein [His]	<i>E. coli</i>
M1R	DAG-WT758	Recombinant MPXV M1R Protein [His]	<i>E. coli</i>
	DAG-WT779	Recombinant MPXV M1R Protein [His]	HEK293 cells
M4R	DAG-WT781	Recombinant MPXV M4R Protein [His]	<i>E. coli</i>

MPXV ELISA Kits

Cat. No.	Product Name	Species Reactivity	Sample
DEIABZ004	Human Anti-MPXV IgG (Anti-Monkeypox Virus IgG) ELISA Kit	Human	Serum, plasma and other biological fluids
DEIABZ005	Human Anti-MPXV IgM (Anti-Monkeypox Virus IgM) ELISA Kit	Human	Serum, plasma and other biological fluids
DEIA-NS2311-2	Monkeypox Virus (MPXV) H3L Antigen ELISA Kit	Human	Plasma, Serum
DEIA-NS2311-3	Monkeypox Virus (MPXV) A35R Antigen ELISA Kit	Human	Plasma, Serum

**For research use only not for in vitro diagnostics use*

CREATIVE DIAGNOSTICS

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