

Product datasheet

anti-AAV8 (intact particle) mouse monoclonal, ADK8, supernatant

Short overview

Cat. No.	651160
Quantity	5 ml

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG2a kappa
Clone	ADK8
Immunogen	AAV8 capsids
Formulation	Contains 0.09% sodium azide
Synonym	Adeno-associated virus 8, AAV-8
Conjugate	Unconjugated
Purification	Hybridoma cell culture supernatant
Storage	Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
Intended use	Research use only
Application	Dot blot, ELISA, ICC/IF, IP, Neutralization assay
Reactivity	AAV3, AAV7, AAV8, AAVrh10, AAVrh74, Anc80
No reactivity	AAV1, AAV11, AAV12, AAV2, AAV4, AAV5, AAV6, AAV9, AAVDJ

Applications

Dot Blot	Assay dependent (non-denaturing conditions)
ELISA	Assay dependent
Immunocytochemistry (ICC)	Assay dependent
Immunoprecipitation (IP)	Assay dependent
Neutralization Assay	Assay dependent

Background

For characterization of different stages of infection and very useful for the analysis of the AAV assembly process. ADK8 specifically reacts with AAV1, AAV3, AAV7, AAV8, AAVrh10, AAVrh74 and Anc80, empty and full capsids. Recognizes a conformational epitope of assembled capsids. Predicted binding site: residues 586-LQQQNT-591 (Gurda et al. 2012). The antibody cannot be used for immunoblotting using denaturing conditions. The antibody is also useful for neutralizing experiments. Gurda, B. L. et al. Mapping a Neutralizing Epitope onto the Capsid of Adeno-Associated Virus Serotype 8. J. Virol. 86, 7739-7751 (2012).

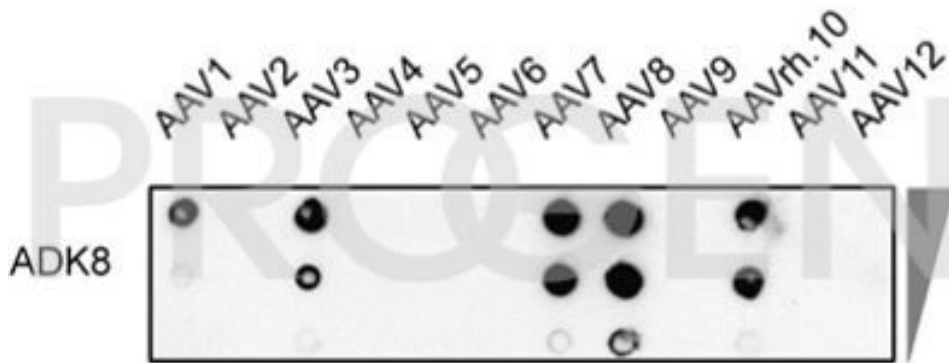
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Product images



Dot blot with different AAV serotypes and mouse monoclonal anti-AAV8 antibody, clone ADK8 (Courtesy of Regina Heilbronn, Charité Universitätsmedizin Berlin, Mietzsch et al. Hum Gene Ther. 2014 Mar 1; 25(3):212-222)

References

Publication	Species	Application
François, A. et al. Accurate Titration of Infectious AAV Particles Requires Measurement of Biologically Active Vector Genomes and Suitable Controls. Mol. Ther. - Methods Clin. Dev. 10, 223â€“236 (2018).	AAV8	ICC-IF
Haar, J., Blazevic, D., Strobel, B., Kreuz, S. & Michelfelder, S. MSD-based assays facilitate a rapid and quantitative serostatus profiling for the presence of anti-AAV antibodies. Mol. Ther. - Methods Clin. Dev. 25, 360â€“369 (2022).	AAV8	IA
Emmanuel, S. N., Mietzsch, M., Tseng, Y. S., Smith, J. K. & Agbandje-Mckenna, M. Parvovirus Capsid-Antibody Complex Structures Reveal Conservation of Antigenic Epitopes across the Family. Viral Immunol. 34, 3â€“17 (2021).	AAV8	binding region
Baatartsoqt, N. et al. A sensitive and reproducible cell-based assay via secNanoLuc to detect neutralizing antibody against adeno-associated virus vector capsid. Mol. Ther. - Methods Clin. Dev. 22, 162â€“171 (2021).	AAV8	Neutralization
Gurda, B. L. et al. Mapping a Neutralizing Epitope onto the Capsid of Adeno-Associated Virus Serotype 8. J. Virol. 86, 7739-7751 (2012).	AAV8	ELISA, dot blot, ICC-IF, neutralization, epitope mapping