

## Product datasheet

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

#### Short overview

<b>Cat. No.</b>	651160
<b>Quantity</b>	5 ml

#### Product description

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

#### Applications

<b>Dot Blot</b>	Assay dependent (non-denaturing conditions)
<b>ELISA</b>	Assay dependent
<b>Immunocytochemistry (ICC)</b>	Assay dependent
<b>Immunoprecipitation (IP)</b>	Assay dependent
<b>Neutralization Assay</b>	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).

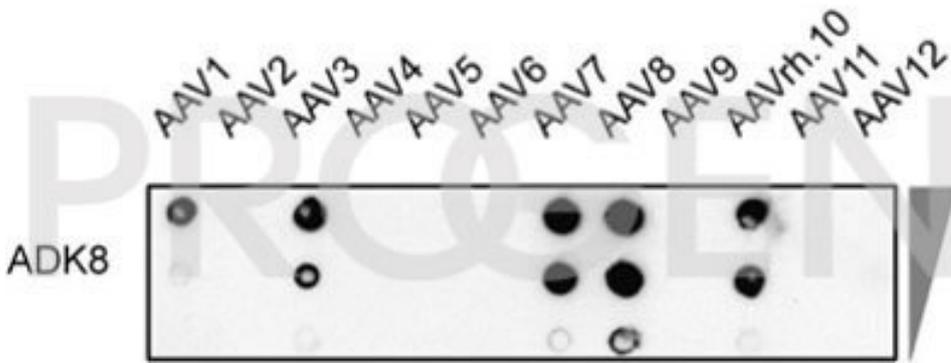
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Product images



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
<a href="#">Ohba K. et al. Adeno-associated virus vector system controlling capsid expression improves viral quantity and quality. iScience. 26, 106487, (2023).</a>	AAV7, AAV8, AAVrh10	IP
<a href="#">Haar, J., Blazevic, D., Strobel, B., Kreuz, S. &amp; 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).</a>	AAV8	IA
<a href="#">Emmanuel, S. N., Mietzsch, M., Tseng, Y. S., Smith, J. K. &amp; Agbandje-Mckenna, M. Parvovirus Capsid-Antibody Complex Structures Reveal Conservation of Antigenic Epitopes across the Family. Viral Immunol. 34, 3â€“17 (2021).</a>	AAV8	binding region
<a href="#">Baatartsogt, 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).</a>	AAV8	Neutralization
<a href="#">Chung, S.H. et al. Host immune responses after suprachoroidal delivery of AAV8 in nonhuman primate eyes. Hum Gene Ther. 32, 682-693(2021).</a>	AAV8	binding antibody assay