

## Product datasheet

anti-AAV6 (intact particle) mouse monoclonal, ADK6, lyophilized, purified, sample

### Short overview

<b>Cat. No.</b>	610159S
<b>Quantity</b>	10 µg
<b>Concentration</b>	50 µg/ml after reconstitution with 200 µl PBS

### Product description

<b>Host</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Isotype</b>	IgG2a kappa
<b>Clone</b>	ADK6
<b>Immunogen</b>	AAV6 capsids
<b>Formulation</b>	Lyophilized; reconstitute in 200 µl sterile PBS
<b>Synonym</b>	Adeno-associated virus 6; AAV-6
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity chromatography
<b>Storage before reconstitution</b>	2-8°C until indicated expiry date
<b>Storage after reconstitution</b>	Up to 3 months 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, Neutralization assay
<b>Reactivity</b>	AAV6
<b>No reactivity</b>	AAV1, AAV11, AAV12, AAV2, AAV3, AAV4, AAV5, AAV7, AAV8, AAV9, AAVDJ, AAVrh10, AAVrh74

### Applications

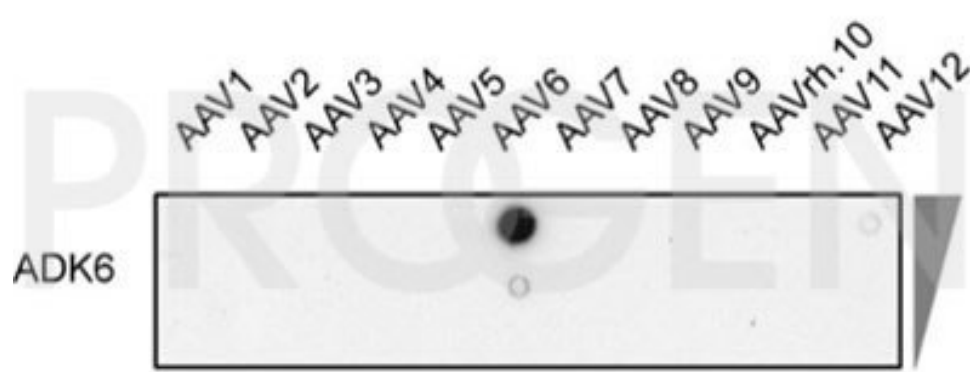
<b>Dot Blot</b>	1:500 (0.1 µg/ml; non-denaturing conditions)
<b>ELISA</b>	Assay dependent
<b>Immunocytochemistry (ICC)</b>	Assay dependent
<b>Neutralization Assay</b>	Assay dependent

### Background

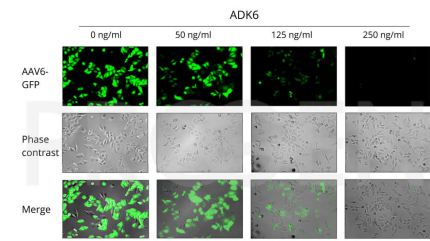
For characterization of different stages of infection and very useful for the analysis of the AAV6 assembly process. ADK6 specifically reacts with intact adeno-associated virus 6 particles, empty and full capsids. Recognizes a conformational epitope of assembled capsids. The antibody cannot be used for immunoblotting. The antibody is also useful for neutralizing experiments.

Limited Use Label License: Research Use OnlyProduct is exclusively licensed to PROGEN Biotechnik GmbH. The use of these products for the development, manufacturing and sale of secondary products/derivatives which are based on the purchased products and/or which include the purchased product require a royalty based sub-license agreement.

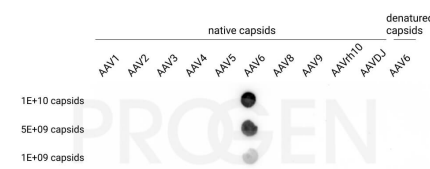
Product images



Dot blot with different AAV serotypes and mouse monoclonal anti-AAV6 antibody, clone ADK6 (Courtesy of Regina Heilbronn, Charité Universitätsmedizin Berlin, Mietzsch et al. Hum Gene Ther. 2014 Mar 1; 25(3):212-222)



Neutralization of AAV6-GFP vectors with the ADK6 antibody. AAV infection was shown in HeLa cells and photos (GFP, CPE, merge) were taken ~48 h post infection. Neutralization was enhanced with increasing ADK6 concentration.



Dot blot analysis of native AAV1-AAV9, AAVrh10, AAVDJ capsids (1E+09-1E+10 capsids) and denatured AAV6 capsids (1E+09-1E+10 capsids, denatured at 95°C for 10 min in sample buffer).The nitrocellulose membrane was blocked with 5% dry milk in PBST (PBS + 0.1% Tween 20) for 1 h at RT. The primary antibody anti-AAV6, mouse monoclonal, ADK6 was diluted in blocking buffer (antibody concentration 100 ng/ml) and incubated for 1 h at RT. The secondary antibody goat anti-mouse IgG HRP was also diluted in blocking buffer (antibody concentration 200 ng/ml) and incubated for 1 h at RT. The bands were visualized by chemiluminescent detection using Pierce ECL Plus Western Blotting Substrate.

## References

Publication	Species	Application
<a href="#">Mietzsch, M. et al. OneBac: Platform for Scalable and High-Titer Production of Adeno-Associated Virus Serotype 1-12 Vectors for Gene Therapy. Hum. Gene Ther. 25, 212-222 (2014).</a>	AAV6	dot blot
<a href="#">Sonntag, F. et al. The Assembly-Activating Protein Promotes Capsid Assembly of Different Adeno-Associated Virus Serotypes. J. Virol. 85, 12686-12697 (2011).</a>	AAV6	dot blot
<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>	AAV6	binding region
<a href="#">Bennett, A. D. et al. AAV6 K531 serves a dual function in selective receptor and antibody ADK6 recognition. Virology 518, 369-376 (2018).</a>	AAV6	neutralization
<a href="#">Cao, L., Ledeboer, A., Pan, Y., Lu, Y. &amp; Meyer, K. Clinical enrollment assay to detect preexisting neutralizing antibodies to AAV6 with demonstrated transgene expression in gene therapy trials. Gene Ther. 1â€“10 (2022).</a>	AAV6	TI assay