Product datasheet

anti-AAV6, mouse monoclonal, ADK6, sample

Short overview

Cat. No.	690159S
Quantity	200 µl
Concentration	50 µg/ml

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG2a kappa
Formulation	PBS, pH 7.4 with 0.09% sodium azide and 0.5% BSA
Conjugate	Unconjugated
Purification	Affinity chromatography
Storage	Up to 1 month: 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, Neutralization assay
Reactivity	AAV6
No reactivity	AAV1, AAV11, AAV12, AAV2, AAV3, AAV4, AAV5, AAV7, AAV8, AAV9, AAVDJ, AAVrh10, AAVrh74

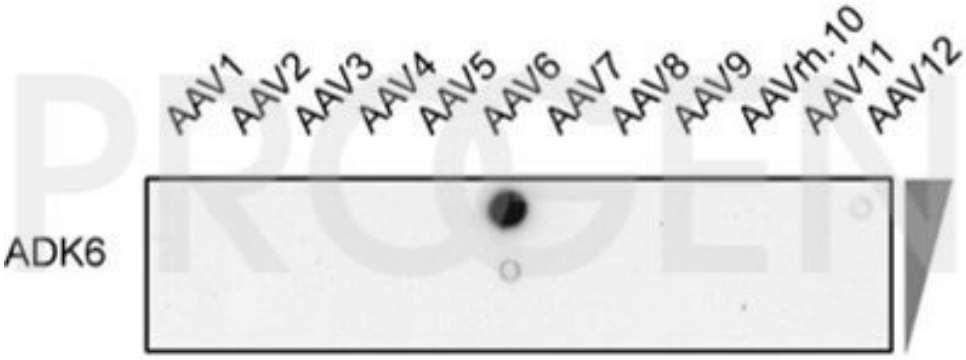
Applications

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

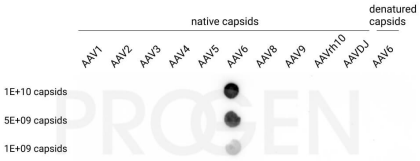
Background

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.

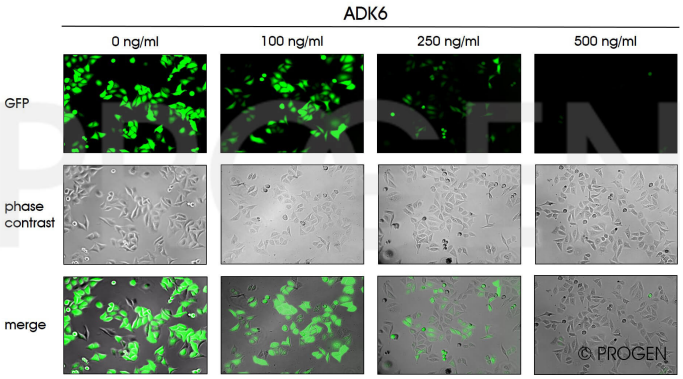
Product images



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)



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.



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References

Publication	Species	Application
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).	AAV6	dot blot
Sonntag, F. et al. The Assembly-Activating Protein Promotes Capsid Assembly of Different Adeno-Associated Virus Serotypes. J. Virol. 85, 12686-12697 (2011).	AAV6	dot blot
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).	AAV6	binding region
Bennett, A. D. et al. AAV6 K531 serves a dual function in selective receptor and antibody ADK6 recognition. Virology 518, 369-376 (2018).	AAV6	neutralization
Cao, L., Ledeboer, A., Pan, Y., Lu, Y. & 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).	AAV6	TI assay