Product datasheet

anti-AAV8/9 (intact particle) mouse monoclonal, ADK8/9, liquid, purified, sample

Short overview

Cat. No.	690161S
Quantity	200 µl (50 µg/ml)
Concentration	50 µg/ml

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG2a kappa
Clone	ADK8/9
Immunogen	AAV8 capsids
Formulation	0.09% sodium azide, 0.5% BSA in PBS buffer, pH 7.4
Conjugate	Unconjugated
Purification	Affinity chromatography
Storage	Up to 3 months at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
Intended use	Research use only
Application	Dot blot, ICC/IF, IP
Reactivity	AAV8, AAV9, AAVDJ, AAVrh10, AAVrh74, Anc80
No reactivity	AAV1, AAV2, AAV3, AAV4, AAV5, AAV6

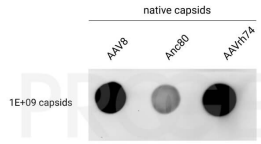
Applications

Dot Blot	1:50-1:250 (0.2-1 µg/ml; non-denaturing conditions)
Immunocytochemistry (ICC)	Assay dependent
Immunoprecipitation (IP)	Assay dependent

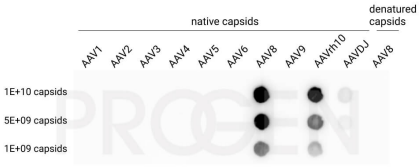
Background

For characterization of different stages of infection and very useful for the analysis of the AAV assembly process. ADK8/9 specifically reacts with AAV8, AAVrh10, Anc80 and AAVrh74 and with weak affinity with AAV9 and AAVDJ, empty and full capsids. Recognizes a conformational epitope of assembled capsids. The antibody cannot be used for immunoblotting using denaturing conditions.

Product images



Dot blot analysis of native AAV8, Anc80 and AAVrh74 capsids (1E+09 capsids). 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-AAV8/9 (intact particle) mouse monoclonal, ADK8/9 (Cat. No. 690161) was diluted in blocking buffer (antibody concentration 500 ng/ml) and incubated for 1 h at RT. The secondary antibody goat anti-mouse IgG goat 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.



Dot blot analysis of native AAV1-AAV9, AAVrh10, AAVDJ capsids (1E+09-1E+10 capsids) and denatured AAV8 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-AAV8/9 (intact particle) mouse monoclonal, ADK8/9 (Cat. No. 690161) was diluted in blocking buffer (antibody concentration 1 ug/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
Ohba K. et al. Adeno-associated virus vector system controlling capsid expression improves viral quantity and quality., iScience, 26, 106487, (2023).	AAV9	IP
Havlik, L. P. et al. Coevolution of Adeno-associated Virus Capsid Antigenicity and Tropism through a Structure-Guided Approach. J. Virol. 94, (2020).	AAV8	cryoEM
Fitzpatrick, Z. et al. Influence of Pre-existing Anti-capsid Neutralizing and Binding Antibodies on AAV Vector Transduction. Mol.Ther.Methods.Clin.Dev. 9, 119-129 (2018).	AAV8	ICC-IF
Earley, L. F. et al. Adeno-associated Virus (AAV) Assembly-Activating Protein Is Not an Essential Requirement for Capsid Assembly of AAV Serotypes 4, 5, and 11. J. Virol. 91, 1980â€“1996 (2017).	AAV9	ICC-IF