Product datasheet

anti-AAV VP1/VP2/VP3 rabbit polyclonal (VP51), serum

Short overview

Cat. No.	61084
Quantity	250 µl

Product description

Host	Rabbit
Antibody Type	Polyclonal
Immunogen	Recombinant AAV2 VP3 proteins
Formulation	Contains 0.09% sodium azide
Note	Centrifuge prior to opening
Conjugate	Unconjugated
Purification	Stabilized antiserum
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	ELISA, ICC/IF, IP, WB
Reactivity	AAV1, AAV2, AAV3, AAV4, AAV5, AAV6, AAV7, AAV8, AAV9, AAVDJ, AAVrh10, AAVrh74

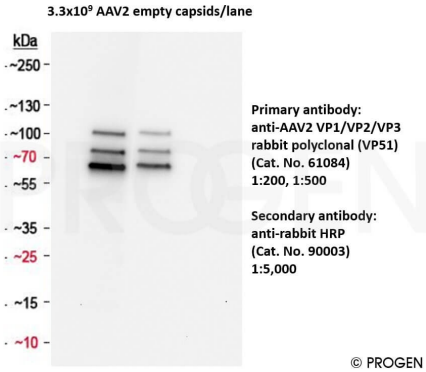
Applications

ELISA	Assay dependent
Immunocytochemistry (ICC)	1:50-1:100
Immunoprecipitation (IP)	1:10
Western Blot (WB)	1:200-1:500

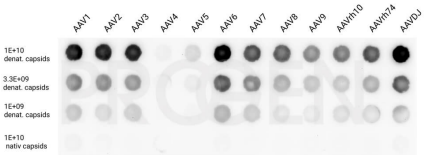
Background

The VP51 antibody reacts with the denatured proteins VP1, VP2, and VP3 of several AAV serotypes. Additionally, it detects native capsids with significantly lower affinity.

Product images



WB with anti-AAV VP1/VP2/VP3 antibody (Cat. No. 61084, 1:200 & 1:500) using AAV2 capsids as sample



Dot blot analysis of denatured and native AAV1-AAV9, AAVrh10, AAVDJ, AAVrh74 capsids (1E+09-1E+10 capsids) using the anti-AAV VP1/VP2/VP3 rabbit polyclonal antibody VP51. Capsids were denatured at 95°C for 10 min in sample buffer.The nitrocellulose membrane was blocked with 5% milk in PBST for 1 h at RT. The primary antibody anti-AAV VP1/VP2/VP3 rabbit polyclonal, VP51 (Cat. No. 61084) was diluted in blocking buffer (1:250) and incubated for 1 h at RT. The secondary antibody anti-rabbit IgG goat polyclonal, HRP conjugate (Cat. No. 90003) 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 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).	AAV2, AAV7, AAV8, AAV9, AAVrh10	WB
Michels, A. et al. Lentiviral and adeno-associated vectors efficiently transduce mouse T lymphocytes when targeted to murine CD8. Mol. Ther. - Methods Clin. Dev. 23, 334â€“347 (2021).	AAV2	WB
Galibert, L. et al. Functional roles of the membrane-associated AAV protein MAAP. Sci. Rep. 11, (2021).	AAV2	ICC-IF
Grosse, S. et al. Relevance of Assembly-Activating Protein for Adeno-associated Virus Vector Production and Capsid Protein Stability in Mammalian and Insect Cells. J.Virol. 91,Â (2017).	AAV2	WB
Mietzsch, M. et al. OneBac: Platform for Scalable and High-Titer Production of Adeno-Associated Virus Serotype 1â€“12 Vectors for Gene Therapy. Hum. Gene Ther. 25, 212â€“222 (2014).	AAV1,AAV2,AAV3,AAV4,AAV5,AAV6,AAV7,AAV8,AAV9,AAVrh10,AAV11,AAV12	dot blot