Product datasheet

anti-AAV5 (intact particle) mouse monoclonal, ADK5a, Biotin Conjugate

Short overview

Cat. No.	615148
Quantity	750 µl

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG2a kappa
Clone	ADK5a
Immunogen	AAV5 capsids
Formulation	Lyophilized; reconstitute with 750 µl sterile PBS
Synomym	Adeno-associated Virus 5, AAV-5
Conjugate	Biotin
Purification	Affinity chromatography
Storage before reconstitution	2-8°C until indicated expiry date
Storage after reconstitution	2-8°C
Intended use	Research use only
Application	ELISA
Reactivity	AAV5
No reactivity	AAV1, AAV11, AAV12, AAV2, AAV3, AAV4, AAV6, AAV7, AAV8, AAV9, AAVDJ, AAVrh10, AAVrh74

Applications

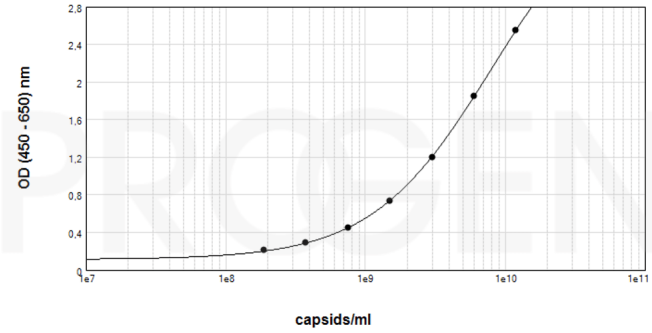
ELISA	1:30

Background

For characterization of different stages of infection and very useful for the analysis of the AAV5 assembly process. ADK5a specifically reacts with intact adeno-associated virus 5 particles, empty and full capsids. Recognizes a conformational epitope of assembled capsids, not present in denatured capsid proteins and native but unassembled capsid proteins.

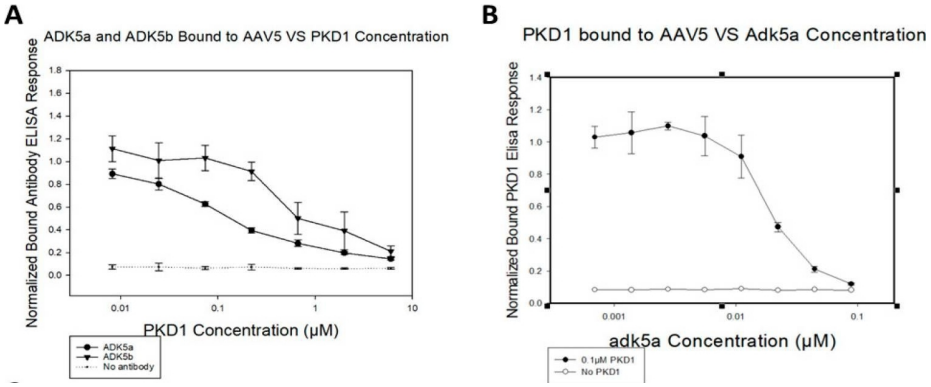
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Product images



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ELISA with ADK5a Biotin Conjugate (Cat. No. 615148) as detection antibody (1:30)



Silveria, M. A., Large, E. E., et al. The Structure of an AAV5-AAVR Complex at 2.5 Ã… Resolution: Implications for Cellular Entry and Immune Neutralization of AAV Gene Therapy Vectors. Viruses. 2020-11-18. Species/Reactant: VirusApplications: Enzyme-linked immunosorbent assayImage collected and cropped by CiteAb from the following publication, provided under a CC-BY licence.

References

Publication	Species	Application
Silveria, M. A., Large, E. E., Zane, G. M., White, T. A. & Chapman, M. S. The structure of an aav5-aavr complex at 2.5 Ã… resolution: Implications for cellular entry and immune neutralization of aav gene therapy vectors. Viruses 12, (2020).	AAV5	neutralization
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).	AAV5	ICC-IF
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).	AAV5	binding region
Jose, A. et al. High-Resolution Structural Characterization of a New Adeno-associated Virus Serotype 5 Antibody Epitope toward Engineering Antibody-Resistant Recombinant Gene Delivery Vectors. J. Virol. 93, 1394â€“1412 (2019).	AAV5	cryoEM
Ohba K. et al. Adeno-associated virus vector system controlling capsid expression improves viral quantity and quality., iScience, 26, 106487, (2023).	AAV5	IP