

Adeno-Associated Virus Capsid Protein VP1 Antibody HRP Conjugated

Catalog No: #C00638H

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Description

Product Name	Adeno-Associated Virus Capsid Protein VP1 Antibody HRP Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	WB IHC-P IHC-F ICC
Species Reactivity	AAV5
Crossing Reactivity	AAV5
Immunogen Description	KLH conjugated synthetic peptide aa 30-80 724 derived from Adeno-Associated Virus 5 capsid protein VP1
Conjugates	HRP
Target Name	Adeno-Associated Virus Capsid Protein VP1
Other Names	capsid protein Adeno-associated 5 virus; capsid protein [Adeno-associated virus - 5]; capsid protein AAV5; Parvovirus coat protein VP1; capsid protein.
Excitation Emission	N A
Concentration	1mg ml
Formulation	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Application Details

WB=1:500-2000 IHC-P=1:50-200 IHC-F=1:50-200 ICC=1:50-200

Background

Capsid protein self-assembles to form an icosahedral capsid with a T=1 symmetry, about 22 nm in diameter, and consisting of 60 copies of three size variants of the capsid protein VP1, VP2 and VP3 which differ in their N-terminus. The capsid encapsulates the genomic ssDNA. Binds to host cell heparan sulfate and uses host ITGA5-ITGB1 as coreceptor on the cell surface to provide virion attachment to target cell. This attachment induces virion internalization predominantly through clathrin-dependent endocytosis. Binding to the host receptor also induces capsid rearrangements leading to surface exposure of VP1 N-terminus, specifically its phospholipase A2-like region and putative nuclear localization signal(s). VP1 N-terminus might serve as a lipolytic enzyme to breach the endosomal membrane during entry into host cell and might contribute to virus transport to the nucleus

Note: This product is for in vitro research use only