Adeno-Associated Virus Capsid Protein VP1 Antibody FITC Conjugated

Catalog No: #C00638F

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Description

Product Name	Adeno-Associated Virus Capsid Protein VP1 Antibody FITC Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	ICC IF
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	FITC
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	494nm 518nm
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

ICC=1:50-200 IF=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