

Monoclonal Antibody to Adeno-associated Virus (AAV) (VP1, VP2 and VP3) - Purified

Alternate names:	AAV2
Catalog No.:	BM5015
Quantity:	50 µg
Host / Isotype:	Mouse / IgG1
Clone:	B1
Immunogen:	Adeno-associated virus capsid proteins and virus particles.
Format:	State: Lyophilized purified IgG fraction with 0.09% Sodium Azide as preservative and 0.5% BSA as stabilizer. Purification: Affinity Chromatography on Protein A . Reconstitution: Restore with 1 ml distilled water
Applications:	Immunofluorescence Microscopy. Immunoprecipitation (mainly free VP proteins). Immunohistochemistry on Frozen Sections (Fixation: Acetone or formaldehyde). <u>Working Dilution:</u> 1/10 with PBS or Tris-buffered saline. <u>Incubation Time:</u> 1h at RT. Immunoblotting (Western Blot). Affinity Chromatography. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Useful for Immunolocalization studies of capsid formation in combination with monoclonal antibody A20 (Cat. No. BM5010). B1 reacts with free VP 1, VP 2 and VP 3 of adeno-associated virus and at a very reduced degree with assembled capsids. VP1 and VP2 are highly enriched in the nucleus, while non-assembled VP3 is evenly distributed in the nucleus and the cytoplasm. Epitope mapping experiments (Wobus et al., see below) identified aa726 to aa733 (C-terminus; common to all 3 VP proteins) as the specific binding region. The antibody is also useful for characterization of different stages of infection. Reacts with AAV-2, found in human and monkey, and all published AAV serotypes (AAV-4 only weak cross-reaction).
Species Reactivity:	Tested: Human and Monkey.
Storage:	Store the antibody at 2-8°C after reconstitution. Shelf life: One year from despatch.
General References:	1. Wistuba A.,Weger S., Kern A., and Kleinschmidt J. (1995) Intermediates of adeno-associated virus type 2 assembly: Identification of soluble complexes containing Rep and Cap proteins. J. Virol. 69, 5311-5319. 2. Wistuba A., Kern A., Weger S., Grimm D., and Kleinschmidt J. (1997) Subcellular compartmentalization of adeno-associated virus type 2 assembly. J. Virol. 71, 1341-1352. 3. Wobus C.A., Hügler-Dörr B., Girod A., Petersen G., Hallek M. and Kleinschmidt J.A. (2000) Monoclonal antibodies against the adenoassociated virus type 2 (AAV-2) capsid: Epitope mapping and identification of capsid domains involved in AAV-2-cell interaction and neutralization of AAV-2 infection. J. Virology 74, 9281-9293.
Recommended	SM10P (for use in human samples), AM03095PU-N