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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Hexon [9C12] Standard Size Ab03440-1.1

Isotype and Format: Mouse IgG1, Kappa

Clone Number: 9C12

Alternative Name(s) of Target: Hexon protein; CP-H; Protein II

UniProt Accession Number of Target Protein: P04133

Published Application(s): Blocking, Cryo-EM, crystallization, IP, neutralizing, SPR, WB, ELISA, IF

Published Species Reactivity: Human Adenovirus

Immunogen: The original antibody was generated by immunizing mice with Ad type 5 (Ad5).

Specificity: The antibody binds hexon protein from Ad5 particles. In particular, it binds to HVRs 2, 5 and 7 of the hexon. Hexon is the major coat protein of adenovirus.

Application Notes: The antibody was able to neutralize Ad5. Cryo-EM reconstruction of the Ad5-9C12 complex showed that the capsid is coated by a meshwork of bivalently bound antibody molecules. The antibody bound to the hexon protein of Ad5 particles denatured as shown by western blot analysis (Varghese et al., 2004; PMID: 15507619). The crystal structure of scFv fragment of the antibody in complex with human adenovirus C5 hexon was determined (Schmid et al., 2018; PMID: 29386504). The specificity of the original format of the antibody was confirmed by ELISA analysis (Moyer et al., 2016; PMID: 26491163). Wild-type viruses were immunoprecipitated using the antibody (Myerset al., 2013; PMID: 23487468). The binding affinity of the Fab fragment to Adv5 hexon was measured by surface plasmon resonance (Kd= 1 nM) (Bottermann et al., 2016; PMID: 27881870). The antibody detected hexon on A549 cells by immunofluorescence analysis (Smith et al., 2008; PMID: 18448546).

Antibody First Published in: Varghese et al. Postentry Neutralization of Adenovirus Type 5 by an Antihexon Antibody. J Virol. 2004 Nov; 78(22): 12320-12332. [PMID:15507619](#)

Note on publication: The original paper describes the generation and characterization of the antibody.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic

procedures for humans or animals.