



Adenovirus hexon protein (3G0): sc-80671

BACKGROUND

Hexon protein is a major coat protein of adenoviruses. Adenovirus capsids have three principal protein components: the hexon, the penton and the fiber. Three hexon protein subunits join together forming two major adenoviral coat structures of differing symmetry. A triangular top with three towers of density is superimposed on a bulky pseudo-hexagonal base. The shape of the top is indicative of the trimeric composition of the structure, while that of the base imparts molecular function, which is to provide a densely packed, impenetrable protective outer layer for the virion. Research indicates that the Adenovirus hexon protein may be a potent adjuvant for activation of a cellular immune response.

REFERENCES

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- Carlisle, R.C., et al. 2001. Adenovirus hexon protein enhances nuclear delivery and increases transgene expression of polyethylenimine/plasmid DNA vectors. *Mol. Ther.* 4: 473-483.
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- Leen, A.M., et al. 2004. Conserved CTL epitopes on the Adenovirus hexon protein expand subgroup cross-reactive and subgroup-specific CD8⁺ T cells. *Blood* 104: 2432-2440.

SOURCE

Adenovirus hexon protein (3G0) is a mouse monoclonal antibody raised against hexon antigen of Adenovirus origin.

PRODUCT

Each vial contains 100 µg IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

Adenovirus hexon protein (3G0) is recommended for detection of Adenovirus hexon protein of many serotypes of Adenovirus origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of Adenovirus hexon protein: 117 kDa.

SELECT PRODUCT CITATIONS

- Liu, C.C., et al. 2010. A novel E1B-55kD-deleted oncolytic adenovirus carrying mutant KRAS-regulated hdm2 transgene exerts specific antitumor efficacy on colorectal cancer cells. *Mol. Cancer Ther.* 9: 450-460.
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- Günther, P.S., et al. 2015. Identification of a novel immunodominant HLA-B*07: 02-restricted adenoviral peptide epitope and its potential in adoptive transfer immunotherapy. *J. Immunother.* 38: 267-275.
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RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.