



Adenovirus Hexon Mouse Monoclonal Antibody

Product Data Sheet

For Research Use Only, Not for use in diagnostic procedures

**Adenovirus Hexon**  
**Mouse Monoclonal Antibody (Clone AF-3H12)**  
Cat# CY-M1027

50 µg (1 mg/ml x 50 µL)

Clone Name	Applications	Species Cross-reactivity	Molecular Wt.	Source Isotype
AF-3H12	IC, F, E	N/A	135 kDa	Mouse IgG2a

**Background:** Recombinant adenoviruses derived from the adenovirus type 5 are widely used to express heterologous genes in mammalian cells, but the use of the adenovirus expression vector system is hampered by slow and tedious procedures for the selection and propagation of adenovirus and for titer determination. Titration of adenoviral stocks is important because when doing experiments, it is important to have consistency between samples, and to achieve the right level of transient expression and when producing viral stocks it is important to know the titer of infectious particles for successful virus production. This antibody can be used for determining titers of adenovirus stocks by immunocytochemical or immunofluorescence method.

**Specificity/Sensitivity:** Adenovirus Hexon antibody detects the Hexon protein of adenovirus (Type 5).

**Source/Purification:** Monoclonal antibody is produced by immunizing mice with wild type adenovirus type 5 particles. IgG is purified by protein A-sepharose chromatography.

**Recommended Antibody Dilutions:** Immunofluorescence assay for detection of Type 5 adenovirus-based recombinant adenovirus: 0.5-1 µg/mL

**Storage:** Supplied in 20 mM phosphate buffer (pH 7.5), 300 mM NaCl, 50 % glycerol. Store at -20°C.

**Applications Key:** WB:Western Blotting IP:Immunoprecipitation IHC:Immunohistochemistry IC:Immunocytochemistry

F:Flow cytometry E:ELISA FP:Fluorescence Polarization assay

**Species Cross-Reactivity Key:** H:human M:mouse R:rat Hm:hamster Mk:monkey Mi:mink C:chicken X:Xenopus Z:zebra fish All:all species expected Species enclosed in parentheses are predicted to react based on 100% sequence homology. N/A: Not Applicable



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#### Selected References:

1. Aiello, L., Guilfoyle, R., Huebner, K. & Weinmann, R. (1979) Adenovirus 5 DNA sequences transcribed in transformed human embryo kidney cells (HEK-Ad5 or 293). *Virology* **94**: 460–469.
2. Eykholt, R. L., Mitchell, M. D. & Marvin K. W. (2000) Accelerated Titering of Adenoviruses. *BioTechniques* **28**: 871–873.
3. Graham, F. L., Smiley, J., Russel, W. C. & Nairn, R. (1977) Characterization of a human cell line transformed by DNA from human adenovirus type 5. *J. Gen. Virol.* **36**: 59–72.
4. Price, J., Turner, D., Cepko C. (1987) Lineage analysis in the vertebrate nervous system by retrovirus-mediated gene transfer. *Proc. Natl. Acad. Sci. U S A* **84**(1): 156–160.

Fig.1 Immunofluorescence detection of adenovirus infected cells

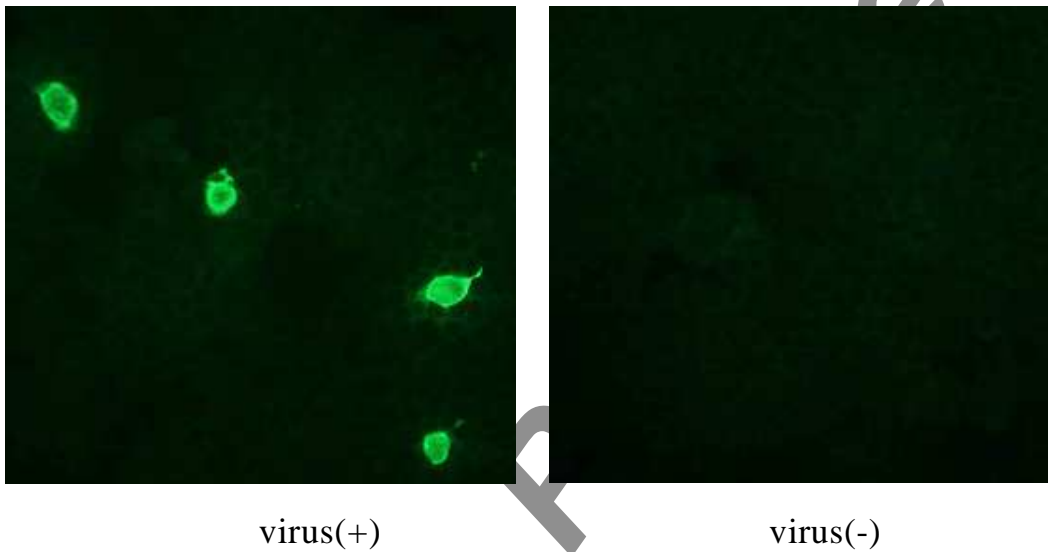
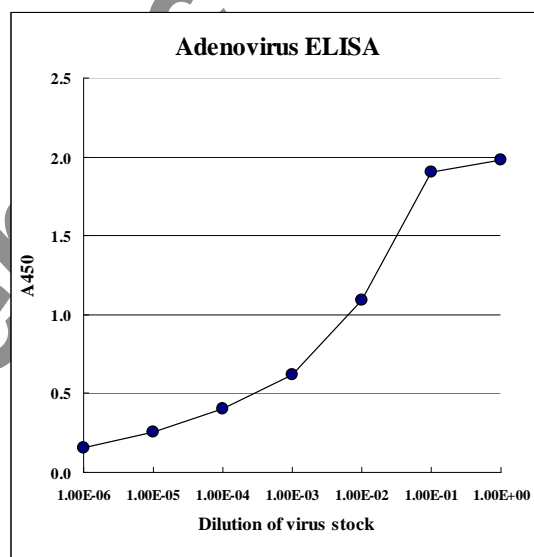


Fig.2 Sandwich ELISA Calibration curve for Type 5 adenovirus Hexon antigen determination in recombinant virus stock





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**Related Products**

\* Anti-Baculovirus envelope gp64: Cat# CY-M1026

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