

QuickTiter Adenovirus Titer ELISA Kit

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CATALOG #
AAA44561

PRODUCT SYNONYMS

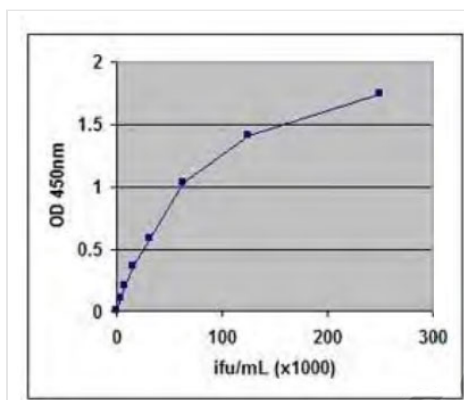
QuickTiter Adenovirus Titer; QuickTiter Adenovirus Titer ELISA Kit; QuickTiter Adenovirus Titer elisa kit

PRODUCT SPECIFICATIONS

Preparation and Storage

Upon receipt, store the Ad-beta gal Positive Control at -80 degree C. Store all other kit components at 4 degree C until their expiration dates.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for QuickTiter Adenovirus Titer elisa kit

Background: Recombinant adenoviruses have tremendous potential in both research and therapeutic applications. There are numerous advantages they provide when introducing genetic material into host cells. The permissive host cell range is very wide. The virus has been used to infect many mammalian cell types (both replicative and non-replicative) for high expression of the recombinant protein. Recombinant adenoviruses are especially useful for gene transfer and protein expression in cell lines that have low transfection efficiency with liposome. After entering cells, the virus remains epichromosomal (i.e. does not integrate into the host chromosome so does not activate or inactivate host genes). Recently, recombinant adenoviruses have been used to deliver RNAi into cells. HEK 293 cells or their variants are used as host cells for viral amplification. Recombinant adenoviruses can be grown at high titer (10¹⁰ VP (viral particles)/mL, which can be concentrated up to 10¹³ VP/mL) and purified by ViraBind™ Adenoviral Purification Kit or traditional CsCl ultracentrifugation. A particular challenge in the delivery of a gene by a viral vector is the accurate measurement of virus titer. Traditionally, infectivity particles are measured in culture by a plaque-forming unit assay (PFU) that scores the number of viral plaques as a function of dilution. These methods are time-consuming (10 days), require a long infection period, and suffer from a high degree of inter-assay variability and are affected by virus-cell interactions. QuickTiter™ Adenovirus Titer ELISA Kit utilizes an antibody against adenovirus hexon proteins to quantitate infected cells. The hexon proteins are the largest and most abundant of the structural proteins in the adenovirus capsid, and they are distributed symmetrically to form capsid facets. QuickTiter™ Adenovirus Titer ELISA Kit provides a quick and complete system to functionally titer virus infectivity; it provides sufficient reagents for up to 192 tests in 96-well plates. In contrast to the 10-day infection of a classical plaque assay, the kit only requires a 2-day infection. Detection sensitivity is 104 ifu/mL (106-107 VP/mL), which is sufficient for most adenoviral samples. The kit recognizes all 41 serotypes of adenovirus by immunocytochemistry and can be used with any adenovirus system as long as the virus is able to amplify in HEK 293 cells.

Product Categories/Family for QuickTiter Adenovirus Titer elisa kit	Viral Expression; Adenoviral Expression; Adenovirus Quantitation/Titer; Adenovirus Functional Titer Kits
References	1. Bewig, B., and W. E. Schmidt (2000) Accelerated titering of adenoviruses. BioTechniques 28:870-873. 1. Lakshmanan, J. et al. (2015). Glycogen synthase kinase 3 regulates IL-1beta mediated iNOS expression in hepatocytes by down-regulating c-Jun. J Cell Biochem. 116:133-141. 2. Oh, D. et al. (2013). Overexpression of SPARC in human trabecular meshwork increases intraocular pressure and alters extracellular matrix. Invest. Ophthalmol. Visc. Sci. 54: 3309-3319.3. Muruganandan, S. et al. (2011). Chemerin, a novel peroxisome proliferator-activated receptor gamma (PPARgamma) target gene that promotes mesenchymal stem cell adipogenesis. J. Biol. Chem. 286:23982-23995. 4. Tudhope, S. et al. (2007). The role of Ikb kinase 2, but not activation of NF-kB, in the release of CXCR3 ligands from IFN-gamma-stimulated human bronchial epithelial cells. J. Immunol. 179:6237-6245. 5. Hoashi, T. et al. (2009). The secreted form of a melanocyte membrane-bound glycoprotein (Pmel17/gp100) is released by ectodomain shedding. FASEB J. 10.1096/fj.09-140921.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/elisa-kits/quicktiter-adenovirus-titer/44561>