

ViraBind Adenovirus Assay Kit

ViraBind Adenovirus Miniprep Kit

CATALOG #
AAA44505

PRODUCT SYNONYMS

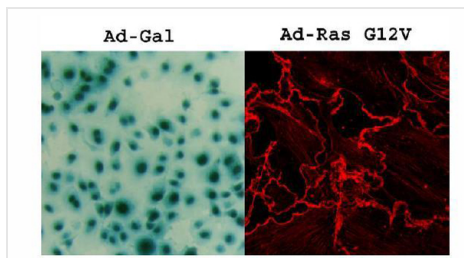
ViraBind Adenovirus; ViraBind Adenovirus Miniprep Kit; ViraBind Adenovirus assay kit

PRODUCT SPECIFICATIONS

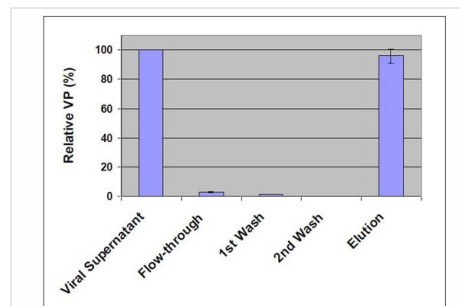
Preparation and Storage

Store all kit components at room temperature.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for ViraBind Adenovirus assay kit

Background: Recombinant adenoviruses have tremendous potential in both research and therapeutic applications. There are numerous advantages in using an adenovirus to introduce 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). The concentrated viral supernatant is subjected to CsCl ultracentrifugation to separate the viruses from the cellular proteins and media components. Following ultracentrifugation, CsCl is then removed by dialysis. The CsCl procedure is both tedious and time consuming (16-24 hrs). ViraBind Adenoviral Miniprep Kit does not involve ultracentrifugation, instead viruses are captured on spin column based on the unique properties of adenoviral capsid proteins. The entire procedure takes about 30 minutes. Each column is designed to purify viruses harvested from one T75 flask or 10-cm plate, and has a capacity of up to 1.0 x 10¹¹ VPs. ViraBind Adenovirus Miniprep Kit provides an efficient system for quick adenoviral purification with high recovery (>95%). The system may be adapted to purification of other viral types, such as retrovirus and lentivirus.

Product Categories/Family for ViraBind Adenovirus assay kit

[Viral Expression](#); [Adenoviral Expression](#); [Adenovirus Purification](#)

References

1. Stewart, P. L., Fuller, S. D., and Burnett, R. M. (1993) EMBO J. 12, 2589-2599.
2. Robbins, P. D., Tahara, H., and Ghivizzani, S. C. (1998) Trends Biotechnol. 16, 35-40.
3. Huang, S., Stupack, D., Mathias, P., Wang, Y., and Nemerow, G. (1997) Proc. Natl. Acad. Sci. U. S. A. 94, 8156-8161.
4. Bergelson, J. M., J. A. Cunningham, G. Droguett, E. A. Kurt-Jones, A. Krithivas, J. S. Hong, M. S. Horwitz, R. L. Crowell, and R. W. Finberg. (1997) Science 275:1320-1323.
5. Von Seggern, D. J., C. Y. Chiu, S. K. Fleck, P. L. Stewart, and G. R. Nemerow. (1999) J. Virol. 73:1601-1608.
6. Kleinerman, D. I., W. W. Zhang, S. H. Lin, N. T. Van, A. C. von Eschenbach, and J. T. Hsieh. (1995) Cancer Res. 55:2831-2836.
1. McAllister, J.M. et al. (2014). Overexpression of a DENND1A isoform produces a polycystic ovary syndrome theca phenotype. PNAS 111:E1519-E1527.2. Wilkins, H. et al. (2013). Mitochondrial Glutathione Transport Is a Key Determinant of Neuronal Susceptibility to Oxidative and Nitrosative Stress. J. Biol. Chem. 288:5091-5101.3. Wang, Y.S. et al. (2012). MicroRNA-195 Regulates Vascular Smooth Muscle Cell Phenotype and Prevents Neointimal Formation. Cardiovasc Res. 95:517-526.4. Kirui, J.K. et al. (2010). Gbetagamma signaling promotes breast cancer cell migration and invasion. J. Pharmacol. Exp. Ther. 333:393-403.

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/assay-kits/virabind-adenovirus/44505>