

QuickTiter MuLV Core Antigen ELISA Kit

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CATALOG #
AAA44568

PRODUCT SYNONYMS

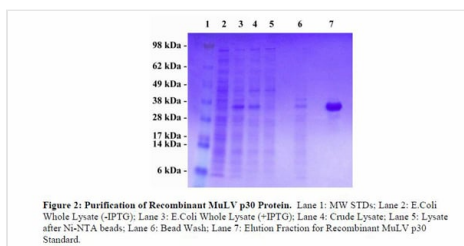
QuickTiter MuLV Core Antigen; QuickTiter MuLV Core Antigen ELISA Kit; QuickTiter MuLV Core Antigen elisa kit

PRODUCT SPECIFICATIONS

Preparation and Storage

Upon receipt, aliquot and store the Recombinant MuLV p30 Standard at -20 degree C to avoid multiple freeze/thaw cycles. Store all other kit components at 4 degree C until their expiration dates.

IMAGES



Application Data

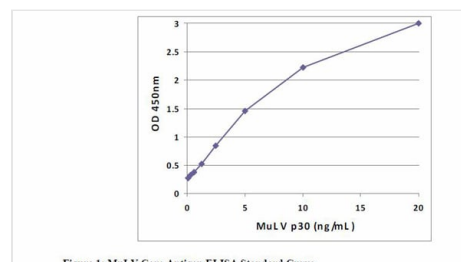


Figure 1: MuLV Core Antigen ELISA Standard Curve

Application Data

ADDITIONAL INFORMATION

Related Product Information for QuickTiter MuLV Core Antigen elisa kit

Principle of the assay: An anti-MuLV p30 monoclonal coating antibody is adsorbed onto a microtiter plate. MuLV core antigen (p30) present in the sample or standard binds to the antibodies adsorbed on the plate; an anti-MuLV p30 polyclonal antibody is added and binds to the antigen captured by the first antibody. Following incubation and wash steps, a HRP-conjugated secondary antibody is added and binds to the anti-MuLV p30 polyclonal. Unbound HRP-conjugated secondary antibody is removed during the wash steps, and substrate solution reactive with HRP is added to the wells. A colored product is formed in proportion to the amount of MuLV core antigen present in the sample. The reaction is terminated by addition of acid and absorbance is measured at 450 nm. A standard curve is prepared from recombinant MuLV p30 core antigen and sample concentration is then determined.

Background: Murine leukemia viruses (MuLVs or MLVs) are retroviruses known for their ability to infect and cause cancer in murine hosts and other vertebrates. Moloney murine leukemia virus-based retroviral vectors are widely used for gene transfer to various target cells. Recently discovered in humans, xenotropic murine leukemia virus-related virus (XMRV) is closely related to murine leukemia viruses (e.g. Gag p30 core antigens share 96% identity). Early studies have linked XMRV to prostate cancer and chronic fatigue syndrome; however, new findings have disputed these claims. QuickTiter MuLV Core Antigen ELISA Kit is an enzyme immunoassay developed for detection and quantitation of the MuLV core antigen protein (Gag p30). A monoclonal antibody to MuLV p30 is coated onto strip wells of microtiter plate. The quantity of MuLV core antigen in the sample is determined by comparing its absorbance with that of known recombinant MuLV p30 core antigen standard curve. The kit has a detection sensitivity limit of 300 pg/mL MuLV p30. Each kit provides sufficient reagents to perform up to 96 assays including standard curve and MuLV samples.

Product Categories/Family for QuickTiter MuLV Core Antigen elisa kit

Pathogen and Toxin Assays; Virus Core Antigen Detection; MuLV Core Antigen ELISA Kit

References

1. Stoye, JP, Coffin, JM (1987) J Virol. 61: 2659-69.
2. D'Souza V, Dey A, Habib D, Summers MF (2004) J Mol. Biol. 337: 427-42.
3. D'Souza V, Summers MF (2004) Nature 431: 586-90.
4. Urisman A, Molinaro RJ, Fischer N, et al. (2006) PLoS Pathogens 2: e25.
1. Kirchmeier, M. et al. (2014). Enveloped Virus-Like Particle Expression of Human Cytomegalovirus Glycoprotein B Antigen Induces Antibodies with Potent and Broad Neutralizing Activity. Clin. Vaccine Immunol. 21:174-180.
2. Belanger, K. et al. (2013). Binding of RNA by APOBEC3G Controls Deamination-Independent Restriction of Retroviruses. J. Exp. Biol. 216:2213-2220.

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/elisa-kits/quicktiter-mulv-core-antigen/44568>