

HTLV-1 p24 core

Description: The E.Coli derived recombinant protein contains the full-length sequence of HTLV-I p24, spanning all of p24. The protein contains 214 amino acids having an Mw of 24kDa.

Catalog #: HIPS-115

Purity: HTLV-1 p24 protein is >95% pure as determined by 10% PAGE (coomassie staining) and RP-HPLC.

For research use only.

Purification Method:

HTLV-1 p24 was purified by proprietary chromatographic technique.

Specificity:

Immunoreactive with all sera of HTLV-1 infected individuals.

Formulation:

50mM NaPO₄ pH 6.0, containing 1mM DTT & 1mM EDTA.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Applications:

HTLV-1 p24 antigen can be used for ELISA and Western blots, excellent antigen for early detection of HIV seroconvertors with minimal specificity problems.

Introduction:

Human T-lymphotropic virus (HTLV) is a human, single-stranded RNA retrovirus that causes T-cell leukemia and T-cell lymphoma. The virus activates a subset of T-helper cells called Th1 cells. The result is a proliferation of Th1 cells and overproduction of Th1 related cytokines (mainly IFN-gamma and TNF-alpha). Feedback mechanisms of these cytokines cause a suppression of the Th2 lymphocytes and a reduction of Th2 cytokine production (mainly IL-4, IL-5, IL-10 and IL-13). The end result is a reduction in the ability of the infected host to mount an adequate immune response to invading organisms that require a predominantly Th2 dependant response (these include parasitic infections and production of mucosal and humoral antibodies).

Storage:

HTLV-1 p24 although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

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