

AM26082PU-N**Monoclonal Antibody to HIV-1 Tat (2-9) - Aff - Purified**

Alternate names:	HIV-I, HIV1, Human immunodeficiency virus type 1
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	HIV is a highly variable virus which mutates very readily. This means there are many different strains of HIV, even within the body of a single infected person. The strains of HIV1 can be classified into three groups: the "major" group M, the "outlier" group O and the "new" group N. These three groups may represent three separate introductions of simian immunodeficiency virus into humans. Group O appears to be restricted to West-Central Africa and group N, discovered in 1998 in Cameroon, is extremely rare. More than 90% of HIV1 infections belong to HIV1 group M.
Host / Isotype:	Mouse / IgG2b
Clone:	1 (02-001)
Format:	State: Liquid Ig fraction Purification: Affinity chromatography Buffer System: PBS pH 7.4, with 0.09% sodium azide
Applications:	Reacts in ELISA, Western blot, Immunoprecipitation, and Immunohistochemistry on frozen sections with HIV-1 Tat of HXB2, IIB, HAN strains. Titer using rTat protein HXB2: ELISA: 1:5000. Western blot: 1:1000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody detects HIV-1 Tat (aa 2-9). It recognizes the rTat consensus sequences of HIV-1 subtypes A (DPVDPNLE), B (EPVDPRLE) and C (EPVDPNLE).
Storage:	Upon receipt, store (in aliquots) at -20 to -70 °C. Avoid repeated freezing and thawing. Shelf life: One year from despatch.
General Readings:	1. Ranki A, Lagerstedt A, Ovod V, Aavik E, Krohn KJ. Expression kinetics and subcellular localization of HIV-1 regulatory proteins Nef, Tat and Rev in acutely and chronically infected lymphoid cell lines. Arch Virol. 1994;139(3-4):365-78. PubMed PMID: 7832642. 2. Ranki A, Nyberg M, Ovod V, Haltia M, Elovaara I, Raininko R, et al. Abundant expression of HIV Nef and Rev proteins in brain astrocytes in vivo is associated with dementia. AIDS. 1995 Sep;9(9):1001-8. PubMed PMID: 8527071. 3. Tähtinen M, Ranki A, Valle SL, Ovod V, Krohn K. B-cell epitopes in HIV-1 Tat and Rev proteins colocalize with T-cell epitopes and with functional domains. Biomed Pharmacother. 1997;51(10):480-7. PubMed PMID: 9863510. 4. Henderson WW, Ruhl R, Lewis P, Bentley M, Nelson JA, Moses AV. Human immunodeficiency virus (HIV) type 1 Vpu induces the expression of CD40 in endothelial cells and regulates HIV-induced adhesion of B-lymphoma cells. J Virol. 2004 May;78(9):4408-20. PubMed PMID: 15078922.

5. Kjerrström A, Hinkula J, Engström G, Ovod V, Krohn K, Benthin R, et al. Interactions of single and combined human immunodeficiency virus type 1 (HIV-1) DNA vaccines. *Virology*. 2001 May 25;284(1):46-61. PubMed PMID: 11352667.