

## Monoclonal Antibody to HTLV-1 Tax Protein - Ascites

**Catalog No.:** AM10177SU-N

**Quantity:** 0.2 ml

**Background:** HTLV-1 causes two distinct human diseases, HTLV-1-associated myelopathy/tropical spastic paraparesis (HAM/TSP) and adult T cell leukemia/lymphoma (ATL). The glycoproteins encoded by the env gene of HTLV-1 are essential for interaction with an unidentified receptor on the surface of target cells and play a crucial role in the infection process. Encoded by HTLV-1 Tax is a phospho-oncoprotein that functions as a transcriptional activator. Tax has the ability to modulate the expression and function of many cellular genes and has been crucial to understanding the HTLV-1-mediated transformation of cells. In activating cellular gene expression, Tax impinges upon several cellular signal-transduction pathways, including the CREB/ATF and NFkB pathways. In addition, Tax deregulates the expression of downstream genes, which mediate cell cycle control.

**Uniprot ID:** [P14079](#)

**NCBI:** [NP\\_057864.1](#)

**GeneID:** [1491938](#)

**Host / Isotype:** Mouse / IgG2a

**Clone:** 1A3

**Immunogen:** HTLV-1 Tax Protein

**Format:** **State:** Lyophilized powder  
**Preservatives:** None  
**Reconstitution:** Restore in distilled water.

**Applications:** **ELISA.**  
**Western Blot:** 1/50-1/500.  
**Immunohistochemistry:** 1/50-1/800.  
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Molecular Weight:** 40 kDa

**Specificity:** This monoclonal antibody reacts with HTLV-1 Tax protein from transiently transfected cells.

**Storage:** Prior to reconstitution store at -20°C.  
Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.  
Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.

- General Readings:**
1. Wencker M, Sausse C, Derse D, Gazzolo L, Duc Dodon M. Human T-cell leukemia virus type 1 Tax protein down-regulates pre-T-cell receptor alpha gene transcription in human immature thymocytes. *J Virol.* 2007 Jan;81(1):301-8. Epub 2006 Oct 18. PubMed PMID: 17050604.
  2. Wada, K., et al. 2009. Ro52-mediated monoubiquitination of IKK $\beta$  downregulates NF $\kappa$ B signalling. *J. Biochem.* 146: 821-832.