HIV1 Tat Monoclonal Antibody (1)

Product Details	
Size	100 µg
Species Reactivity	Virus
Host/Isotype	Mouse / IgG2a
Class	Monoclonal
Type	Antibody
Clone	1
Conjugate	Unconjugated
Immunogen	Recombinant Tat protein of HIV-1 HXB2 purified from E. coli
Form	Liquid
Concentration	0.7 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_962126

Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	-
ELISA (ELISA)	0.02-0.05 µg/mL	-
ChIP assay (ChIP)	1-3 µL	-

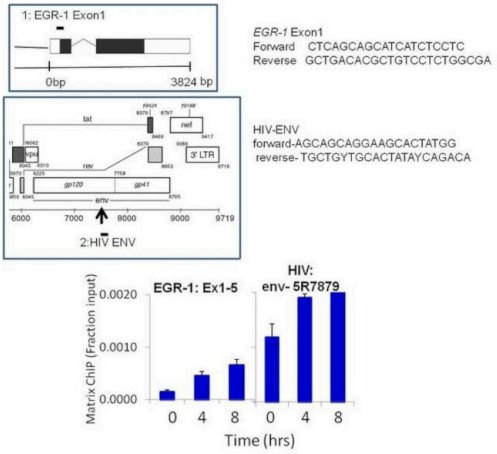
Product Specific Information

This antibody reacts with HIV-1 Tat of HXB2, IIIB and HAN strains. This antibody recognizes Tat protein consensus sequences of HIV-1 subtypes A (DPVDPNLE), B (EPVDPRLE) and C (EPVDPNLE). It has been mapped to amino acids 2-9 EPVDPRLE -- B subtype a.a. consensus.

MA1-71508 can be used for chromatin immunoprecipitation (ChIP) analysis of HIV1 Tat.

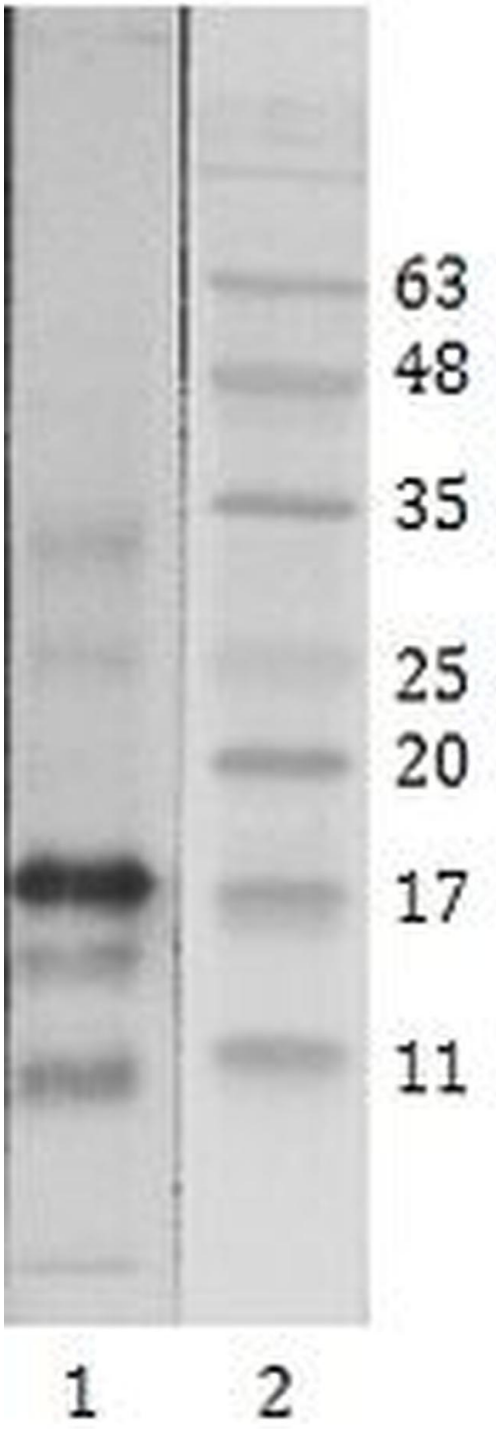
This clone may also be referred to as 1 (02-001).

Product Images For HIV1 Tat Monoclonal Antibody (1)



HIV1 Tat Antibody (MA1-71508) in ChIP

Chromatin immunoprecipitation analysis of HIV1 Tat was performed using cross-linked chromatin from Human 5A8 J-lat T lymphocytes culture latently infected with HIV1 and treated with 10 µg/mL PHA (phytohemaglutin) for 0, 4, and 8 hours. Immunoprecipitation was performed using a multiplex microplate Matrix ChIP assay (see reference for Matrix ChIP protocol: http://www.ncbi.nlm.nih.gov/pubmed/22098709) with 1.0 µL/100 µL well volume of a Tat monoclonal antibody (Product # MA1-71508). Chromatin aliquots from ~1 x 105 cells were used per ChIP pull-down. Quantitative PCR data were done in quadruplicate using 1 µL of eluted DNA in 2 µL SYBR real-time PCR reactions containing primers shown to amplify exon-1 of the EGR1 gene or HIV ENV gene. PCR calibration curves were generated for each primer pair from a dilution series of sheared total genomic DNA. Quantitation of immunoprecipitated chromatin is presented as signal relative to the total amount of input chromatin. Results represent the mean +/- SEM for three experiments. Schematic representations of the EGR-1 and HIV1 ENV locus are shown above the data where boxes represent exons (black boxes = translated regions, white boxes = untranslated regions), the zigzag line represents an intron, and the straight line represents upstream sequence. Regions amplified by the primers are represented by black bars. Data courtesy of the Innovators Program.



HIV1 Tat Antibody (MA1-71508) in WB
Western blot analysis of 100 ng of recombinant HIV-1 Tat (B subtype) (Lane 1) and a protein ladder (Lane 2) using a HIV1 Tat monoclonal antibody (Product # MA1-71508) at a dilution of 2µg/mL.