

TRBP1 Antibody

TRBP1 (IN): TAR RNA binding protein 1, TARBP1, TRP-185, TRP-1

CATALOG No.:4011

BACKGROUND:

The human trans-activation response (TAR) RNA binding protein 1 (TRBP1) was initially identified as a protein that binds to the HIV-1 TAR RNA and activates the long terminal repeat (LTR) expression in the absence and presence of the viral trans-activator Tat (1). This binding is enhanced by the presence of co-factors such as elongation factor 1 α (EF-1 α), polypyrimidine tract-binding protein (PTB), and the chaperonin-like protein stimulator of TAR RNA-binding proteins (SRB) (2). TRBP1 may act to disengage RNA polymerase II from TAR during transcriptional elongation if the RNA polymerase stalls at the TAR during transcriptional elongation (3).

SOURCE:

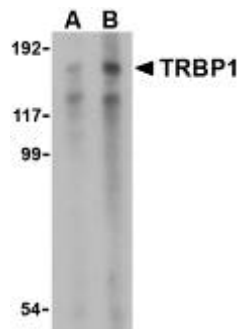
Rabbit polyclonal TRBP1 antibody was raised against a 17 amino acid peptide from near the center of human TRBP1 (GenBank accession no. NP_005637).

APPLICATION:

TRBP1 antibody can be used for detection of TRBP1 by Western blot at 1 – 2 μ g/ml. (Optimal dilution should be determined by user.) 3T3 cell lysate can be used as positive control. TRBP1 antibody is human and mouse reactive. **For research use only.**

STORAGE:

TRBP1 antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of TRBP1 in 3T3 cell lysate with TRBP1 antibody at (A) 1 and (B) 2 μ g/ml.

RELATED PRODUCTS:

Blocking Peptide, Catalog No. **4011P**.

3T3 Cell Lysate, Catalog No. **1212**.

REFERENCES:

1. Gagnol A, Buckler-White A, Berkhout B, et al. Characterization of a human TAR REN-binding protein that activates the HIV-1 LTR. *Science* 1991; 251:1597-1600.
2. Wu-Baer F, Lane WS, and Gaynor RB. Identification of a group of cellular cofactors that stimulate the binding of RNA polymerase II and TRP-185 to human immunodeficiency virus 1 TAR RNA. *J. Biol. Chem.* 1996; 271:4201-8.
3. Wu-Baer F, Lane WS, and Gaynor RB. The cellular factor TRP-185 regulates RNA polymerase II binding to HIV-1 TAR RNA. *EMBO J.* 1995; 14:5995-6009. (07-01D)