10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TARBP2 / TRBP2 Antibody (aa150-200)

Rabbit Polyclonal Antibody

Catalog # ALS12110

Specification

TARBP2 / TRBP2 Antibody (aa150-200) - Product Information

Application	**WB, IHC**
Primary Accession	Q15633
Reactivity	**Human, Mouse, Rat, Zebrafish, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**39kDa KDa**

TARBP2 / TRBP2 Antibody (aa150-200) - Additional Information

Gene ID 6895

Other Names
RISC-loading complex subunit TARBP2 {ECO:0000255|HAMAP-Rule:MF_03034}, TAR RNA-binding protein 2, Trans-activation-responsive RNA-binding protein, TARBP2 {ECO:0000255|HAMAP-Rule:MF_03034}, TRBP

Target/Specificity
A portion of amino acids 150-200 of human TRBP2 was used as the immunogen.

Reconstitution & Storage
Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions
TARBP2 / TRBP2 Antibody (aa150-200) is for research use only and not for use in diagnostic or therapeutic procedures.

TARBP2 / TRBP2 Antibody (aa150-200) - Protein Information

Name TARBP2 {ECO:0000255|HAMAP-Rule:MF_03034}

Synonyms TRBP

Function
Required for formation of the RNA induced silencing complex (RISC). Component of the RISC loading complex (RLC), also known as the micro-RNA (miRNA) loading complex (miRLC), which is composed of DICER1, AGO2 and TARBP2. Within the RLC/miRLC, DICER1 and TARBP2 are required to process precursor miRNAs (pre-miRNAs) to mature miRNAs and then load them onto AGO2. AGO2 bound to the mature miRNA constitutes the minimal RISC and may subsequently dissociate from DICER1 and TARBP2. May also play a role in the production of short interfering RNAs (siRNAs) from double-stranded RNA (dsRNA) by DICER1 (By similarity) (PubMed:15973356, PubMed:16142218, PubMed:<a

href="http://www.uniprot.org/citations/16271387" target="_blank">16271387, PubMed:16357216, PubMed:16424907, PubMed:17452327, PubMed:18178619). Binds in vitro to the PRM1 3'-UTR (By similarity). Seems to act as a repressor of translation (By similarity). For some pre-miRNA substrates, may also alter the choice of cleavage site by DICER1 (PubMed:23063653). Negatively regulates IRF7-mediated IFN-beta signaling triggered by viral infection by inhibiting the phosphorylation of IRF7 and promoting its 'Lys'-48- linked ubiquitination and degradation (PubMed:30927622).

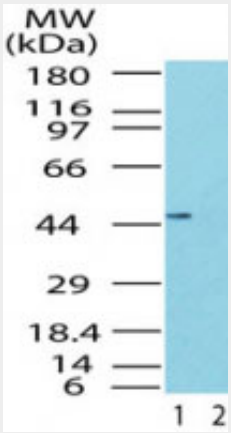
Cellular Location
Cytoplasm. Cytoplasm, perinuclear region. Nucleus

TARBP2 / TRBP2 Antibody (aa150-200) - Protocols

Provided below are standard protocols that you may find useful for product applications.

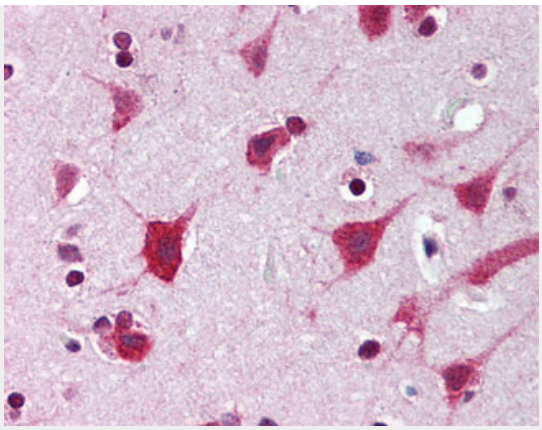
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TARBP2 / TRBP2 Antibody (aa150-200) - Images



Western blot of TRBP2 in the 1) absence and 2) presence of immunizing peptide in human brain...

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Anti-TARBP2 antibody IHC of human brain cortex.

TARBP2 / TRBP2 Antibody (aa150-200) - Background

Required for formation of the RNA induced silencing complex (RISC). Component of the RISC loading complex (RLC), also known as the micro-RNA (miRNA) loading complex (miRLC), which is composed of DICER1, AGO2 and TARBP2. Within the RLC/miRLC, DICER1 and TARBP2 are required to process precursor miRNAs (pre-miRNAs) to mature miRNAs and then load them onto AGO2. AGO2 bound to the mature miRNA constitutes the minimal RISC and may subsequently dissociate from DICER1 and TARBP2. May also play a role in the production of short interfering RNAs (siRNAs) from double-stranded RNA (dsRNA) by DICER1. Binds to the HIV-1 TAR RNA which is located in the long terminal repeat (LTR) of HIV-1, and stimulates translation of TAR-containing RNAs. This is achieved in part at least by binding to and inhibiting EIF2AK2/PKR, thereby reducing phosphorylation and inhibition of EIF2S1/eIF-2-alpha. May also promote translation of TAR-containing RNAs independently of EIF2AK2/PKR.

TARBP2 / TRBP2 Antibody (aa150-200) - References

Gatignol A.,et al.Science 251:1597-1600(1991).
Gatignol A.,et al.Submitted (APR-2000) to the EMBL/GenBank/DDBJ databases.
Kozak C.A.,et al.Genomics 25:66-72(1995).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.