

TARBP2 / TRBP2 Antibody (clone 2G10)
Mouse Monoclonal Antibody
Catalog # ALS14516**Specification**

TARBP2 / TRBP2 Antibody (clone 2G10) - Product Information

Application	WB, IHC
Primary Accession	Q15633
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	39kDa KDa

TARBP2 / TRBP2 Antibody (clone 2G10) - 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

Human TARBP2

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

TARBP2 / TRBP2 Antibody (clone 2G10) is for research use only and not for use in diagnostic or therapeutic procedures.

TARBP2 / TRBP2 Antibody (clone 2G10) - 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

<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

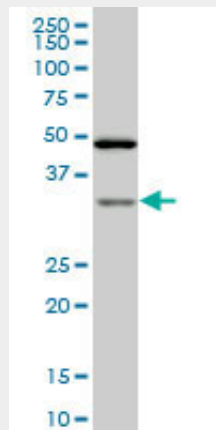
Cytoplasm. Cytoplasm, perinuclear region. Nucleus

TARBP2 / TRBP2 Antibody (clone 2G10) - Protocols

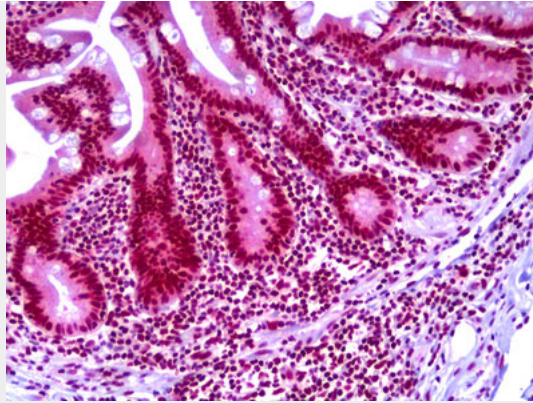
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TARBP2 / TRBP2 Antibody (clone 2G10) - Images



TARBP2 monoclonal antibody, clone 2G10. Western blot of TARBP2 expression in HeLa nuclear extract.



Anti-TARBP2 antibody IHC of human small intestine.

TARBP2 / TRBP2 Antibody (clone 2G10) - 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 (clone 2G10) - 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).
Kalnina 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.