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KD-Validated Anti-TARBP2 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1754

Product Information

Application	WB, FC, ICC
Primary Accession	Q15633
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB2425
Calculated MW	39039
Gene Name	TARBP2
Aliases	TARBP2; TARBP2 Subunit Of RISC Loading Complex; Trbp; TARBP2, RISC Loading Complex RNA Binding Subunit; RISC-Loading Complex Subunit TARBP2; TAR (HIV-1) RNA Binding Protein 2; Trans-Activation Responsive RNA-Binding Protein; Trans-Activation-Responsive RNA-Binding Protein; TAR (HIV) RNA-Binding Protein TRBP1; TAR (HIV) RNA-Binding Protein 2; TAR RNA Binding Protein 2; TAR RNA-Binding Protein 2; TRBP1; TRBP2; LOQS; TRBP
Immunogen	A synthesized peptide derived from human TRBP

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

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: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

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