

TNRC6B Rabbit pAb

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Catalog # AP54521

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9UPQ9
Predicted	Human, Mouse, Rat, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	194002
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TNRC6B
Epitope Specificity	25-70/1833
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm, P-body. Mammalian P-bodies are also known as GW bodies, GWBs.
SIMILARITY	Belongs to the GW182 family. Contains 1 RRM (RNA recognition motif) domain.
SUBUNIT	Interacts with EIF2C1/AGO1, EIF2C2/AGO2, EIF2C3/AGO3 and EIF2C4/AGO4.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	TNRC6B is a 1,723 amino acid protein that exists as two alternatively spliced isoforms and is thought to be involved in mRNA cleavage events. Expressed ubiquitously, TNRC6B contains one glycine/tryptophan (GW)-rich N-terminal domain, one central glutamine-rich region and one C-terminal RNA recognition motif and is encoded by a gene that maps to human chromosome 22. Mutations in several of the genes that map to chromosome 22 are involved in the development of Phelan-McDermid syndrome, Neurofibromatosis type 2, autism and schizophrenia. Additionally, translocations between chromosomes 9 and 22 may lead to the formation of the Philadelphia Chromosome and the subsequent production of the novel fusion protein BCR-Abl, a potent cell proliferation activator found in several types of leukemias.

Additional Information

Gene ID	23112
Other Names	Trinucleotide repeat-containing gene 6B protein, TNRC6B, KIAA1093
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
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Protein Information

Name	TNRC6B
Synonyms	KIAA1093
Function	Plays a role in RNA-mediated gene silencing by both micro- RNAs (miRNAs) and short interfering RNAs (siRNAs) (PubMed: 16289642 , PubMed: 19167051 , PubMed: 19304925 , PubMed: 32354837). Required for miRNA- dependent translational repression and siRNA-dependent endonucleolytic cleavage of complementary mRNAs by argonaute family proteins (PubMed: 16289642 , PubMed: 19167051 , PubMed: 19304925 , PubMed: 32354837). As scaffolding protein associates with argonaute proteins bound to partially complementary mRNAs and simultaneously can recruit CCR4-NOT and PAN deadenylase complexes (PubMed: 21981923).
Cellular Location	Cytoplasm, P-body. Note=Mammalian P-bodies are also known as GW bodies (GWBs).

Background

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.