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

Mov10 Rabbit pAb

Catalog # AP98427

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	P23249
Other Accession	P23249
Predicted	Rat, Pig, Human, Mouse, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	113583
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse Mov10
Epitope Specificity	761-860/1004
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	MOV10 is a RNA helicase that is required for RNA-mediated gene silencing by RISC (RNA-induced silencing complex). Significantly, MOV10 is also required for the transcription and replication of the human hepatitis delta virus, also known as hepatitis D. Belonging to the same family as MOV10, MOV10L1 (Moloney leukemia virus 10-like protein 1) is a 1211 amino acid RNA helicase that is expressed as three isoforms. Interestingly, isoform 1 is expressed exclusively in testis and isoform 2 is specifically expressed in cardiac myocytes. Isoform 1 may play a role in male germ cell development, whereas isoform 2 has been shown to potentiate phenylephrine-induced hypertrophic response in cardiomyocytes. Each isoform contains a RNA interaction motif, ATP binding site and helicase motif through which it carries out its function.

Additional Information

Gene ID	17454
Other Names	Mov-10; fSAP113; gb110; CR201_G0026820; MOV10_BOVIN; MOV10; 3.6.4.13; MOV10_HUMAN; Armitage homolog; Moloney leukemia virus 10 protein; KIAA1631; MOV10_MOUSE; Mov10 RNA helicase; Mov10 (Moloney leukemia virus 10, mouse) homolog; Mov10, Moloney leukemia virus 10, homolog (mouse); Mov10 RISC complex RNA helicase; functional spliceosome-associated protein 113
Dilution	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.

Protein Information

Name	Mov10
Synonyms	Gb110
Function	5'-3' RNA helicase that is involved in a number of cellular roles ranging from mRNA metabolism and translation, modulation of viral infectivity, inhibition of retrotransposition, or regulation of synaptic transmission. Plays an important role in innate antiviral immunity by promoting type I interferon production. Mechanistically, specifically uses IKKepsilon/IKBKE as the mediator kinase for IRF3 activation. Contributes to UPF1 mRNA target degradation by translocation along 3' UTRs. Required for microRNA (miRNA)-mediated gene silencing by the RNA-induced silencing complex (RISC). Required for both miRNA-mediated translational repression and miRNA-mediated cleavage of complementary mRNAs by RISC. In cooperation with FMR1, regulates miRNA-mediated translational repression by AGO2. Restricts retrotransposition of long interspersed element-1 (LINE-1) in cooperation with TUT4 and TUT7 counteracting the RNA chaperonne activity of L1RE1. Facilitates LINE-1 uridylation by TUT4 and TUT7 (By similarity). Required for embryonic viability and for normal central nervous system development and function. Plays two critical roles in early brain development: suppresses retroelements in the nucleus by directly inhibiting cDNA synthesis, while regulates cytoskeletal mRNAs to influence neurite outgrowth in the cytosol (PubMed:28662698). May function as a messenger ribonucleoprotein (mRNP) clearance factor (By similarity).
Cellular Location	Cytoplasm, P-body {ECO:0000250|UniProtKB:Q9HCE1}. Nucleus. Cytoplasm. Cytoplasm, Cytoplasmic ribonucleoprotein granule {ECO:0000250|UniProtKB:Q9HCE1}. Cytoplasm, Stress granule {ECO:0000250|UniProtKB:Q9HCE1}. Note=In young mouse (P2) neurons, localizes both in nucleus and cytoplasm, but in the adulthood it is only cytoplasmic (PubMed:28662698). Co-enriched in cytoplasmic foci with TUT4 (By similarity). {ECO:0000250|UniProtKB:Q9HCE1, ECO:0000269|PubMed:28662698}

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