

MOV10 Rabbit mAb

Catalog # AP76996

Product Information

Application	WB, IHC-P
Primary Accession	Q9HCE1
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Immunogen	A synthesized peptide derived from human Mov10
Purification	Affinity Purified
Calculated MW	113671

Additional Information

Gene ID	4343
Other Names	MOV10
Dilution	WB~~1/500-1/1000 IHC-P~~N/A
Format	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

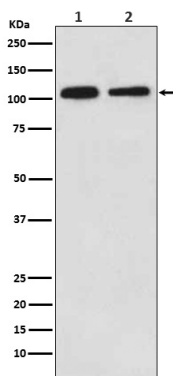
Name	MOV10 (HGNC:7200)
Synonyms	KIAA1631
Function	5' to 3' RNA helicase that is involved in a number of cellular roles ranging from mRNA metabolism and translation, modulation of viral infectivity, inhibition of retrotransposition, or regulation of synaptic transmission (PubMed: 23093941). Plays an important role in innate antiviral immunity by promoting type I interferon production (PubMed: 27016603 , PubMed: 27974568 , PubMed: 35157734). Mechanistically, specifically uses IKKepsilon/IKBKE as the mediator kinase for IRF3 activation (PubMed: 27016603 , PubMed: 35157734). Blocks HIV-1 virus replication at a post-entry step (PubMed: 20215113). Counteracts HIV-1 Vif-mediated degradation of APOBEC3G through its helicase activity by interfering with the ubiquitin-proteasome pathway (PubMed: 29258557). Also inhibits hepatitis B virus/HBV replication by interacting with HBV RNA and thereby inhibiting the

early step of viral reverse transcription (PubMed:[31722967](#)). Contributes to UPF1 mRNA target degradation by translocation along 3' UTRs (PubMed:[24726324](#)). 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 (PubMed:[16289642](#), PubMed:[17507929](#), PubMed:[22791714](#)). In cooperation with FMR1, regulates miRNA-mediated translational repression by AGO2 (PubMed:[25464849](#)). Restricts retrotransposition of long interspersed element-1 (LINE-1) in cooperation with TUT4 and TUT7 counteracting the RNA chaperone activity of L1RE1 (PubMed:[23093941](#), PubMed:[30122351](#)). Facilitates LINE-1 uridylation by TUT4 and TUT7 (PubMed:[30122351](#)). 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 (By similarity). May function as a messenger ribonucleoprotein (mRNP) clearance factor (PubMed:[24726324](#)).

Cellular Location

Cytoplasm, P-body. Cytoplasm, Cytoplasmic ribonucleoprotein granule. Cytoplasm, Stress granule. Nucleus {ECO:0000250|UniProtKB:P23249} Cytoplasm {ECO:0000250|UniProtKB:P23249}. Note=Co-enriched in cytoplasmic foci with TUT4 (PubMed:30122351). In developing neurons, localizes both in nucleus and cytoplasm, but in the adulthood it is only cytoplasmic (By similarity). After infection, relocates to the DENV replication complex in perinuclear regions (PubMed:27974568) {ECO:0000250|UniProtKB:P23249, ECO:0000269|PubMed:27974568, ECO:0000269|PubMed:30122351}

Images



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