

Anti-Mov10 Rabbit Monoclonal Antibody

Catalog # ABO15691

Product Information

Application	WB, IHC
Primary Accession	Q9HCE1
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-Mov10 Rabbit Monoclonal Antibody . Tested in WB, IHC applications. This antibody reacts with Human, Mouse, Rat.

Additional Information

Gene ID	4343
Other Names	Helicase MOV-10, 3.6.4.13, Armitage homolog, Moloney leukemia virus 10 protein, MOV10 (HGNC:7200), KIAA1631
Calculated MW	113671
Application Details	WB 1:500-1:2000 IHC 1:50-1:200
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: 22M67
Immunogen	A synthesized peptide derived from human Mov10
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

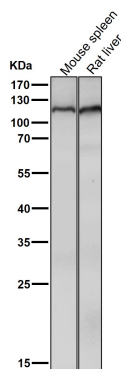
Name	MOV10 (HGNC:7200)
Synonyms	KIAA1631
Function	5'-3' RNA helicase (PubMed: 24726324). Involved in a number of cellular roles ranging from mRNA metabolism and translation, modulation of viral

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

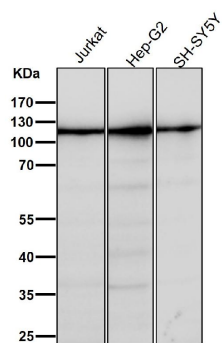
Cytoplasm, P-body. Cytoplasm, Cytoplasmic ribonucleoprotein granule. Cytoplasm, Stress granule. Nucleus {ECO:0000250 | UniProtKB:P23249} Cytoplasm {ECO:0000250 | UniProtKB:P23249}. Note=Co-enriched in cytoplasmic foci with TUT4 (PubMed:30122351). In developing neurons, localizes both in nucleus and cytoplasm,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

Images

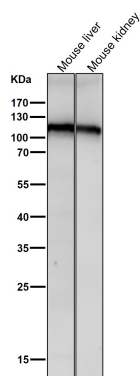


All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.

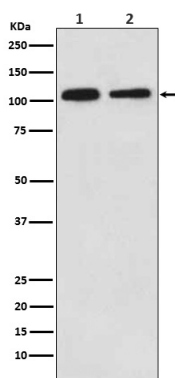
All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



Western blot analysis of Mov10 expression in (1) 293 cell lysate; (2) NIH/3T3 cell lysate.



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