

**Mov10 Antibody**  
Rabbit mAb  
Catalog # AP92271

## Specification

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### Mov10 Antibody - Product Information

Application	WB, IHC
Primary Accession	<a href="#">O9HCE1</a>
Reactivity	Rat
Clonality	Monoclonal
<b>Other Names</b>	
gb110; MOV 10;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	113671 Da

### Mov10 Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Mov10
Description	MOV10 may be an helicase with an important function in development and/or control of cell proliferation. RNA silencing processes are guided by small RNAs known as siRNAs and microRNAs (miRNAs). They reside in ribonucleoprotein complexes, which guide the cleavage of complementary mRNAs or affect stability and translation of partial complementary mRNAs.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

### Mov10 Antibody - 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:<a href="http://www.uniprot.org/citations/23093941" target="\_blank">23093941</a>). Plays an important role in innate antiviral immunity by

promoting type I interferon production (PubMed:<a href="http://www.uniprot.org/citations/27016603" target="\_blank">27016603</a>, PubMed:<a href="http://www.uniprot.org/citations/27974568" target="\_blank">27974568</a>, PubMed:<a href="http://www.uniprot.org/citations/35157734" target="\_blank">35157734</a>). Mechanistically, specifically uses IKKepsilon/IKBKE as the mediator kinase for IRF3 activation (PubMed:<a href="http://www.uniprot.org/citations/27016603" target="\_blank">27016603</a>, PubMed:<a href="http://www.uniprot.org/citations/35157734" target="\_blank">35157734</a>). Blocks HIV-1 virus replication at a post-entry step (PubMed:<a href="http://www.uniprot.org/citations/20215113" target="\_blank">20215113</a>). Counteracts HIV-1 Vif-mediated degradation of APOBEC3G through its helicase activity by interfering with the ubiquitin-proteasome pathway (PubMed:<a href="http://www.uniprot.org/citations/29258557" target="\_blank">29258557</a>). Inhibits also hepatitis B virus/HBV replication by interacting with HBV RNA and thereby inhibiting the early step of viral reverse transcription (PubMed:<a href="http://www.uniprot.org/citations/31722967" target="\_blank">31722967</a>). Contributes to UPF1 mRNA target degradation by translocation along 3' UTRs (PubMed:<a href="http://www.uniprot.org/citations/24726324" target="\_blank">24726324</a>). 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:<a href="http://www.uniprot.org/citations/16289642" target="\_blank">16289642</a>, PubMed:<a href="http://www.uniprot.org/citations/17507929" target="\_blank">17507929</a>, PubMed:<a href="http://www.uniprot.org/citations/22791714" target="\_blank">22791714</a>). In cooperation with FMR1, regulates miRNA-mediated translational repression by AGO2 (PubMed:<a href="http://www.uniprot.org/citations/25464849" target="\_blank">25464849</a>). Restricts retrotransposition of long interspersed element-1 (LINE-1) in cooperation with TUT4 and TUT7 counteracting the RNA chaperone activity of L1RE1 (PubMed:<a href="http://www.uniprot.org/citations/23093941" target="\_blank">23093941</a>, PubMed:<a href="http://www.uniprot.org/citations/30122351" target="\_blank">30122351</a>). Facilitates LINE-1 uridylation by TUT4 and TUT7 (PubMed:<a href="http://www.uniprot.org/citations/30122351" target="\_blank">30122351</a>). 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:<a href="http://www.uniprot.org/citations/24726324" target="\_blank">24726324</a>).

### 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}

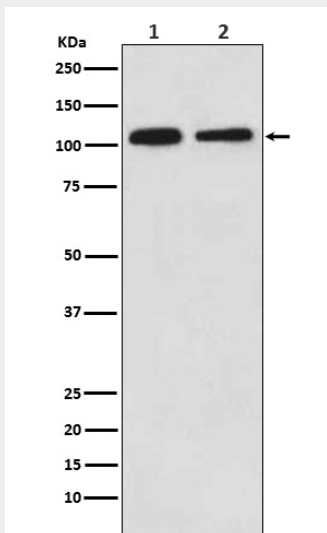
### Mov10 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

### Mov10 Antibody - Images



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