

UAP56 Antibody

Rabbit mAb Catalog # AP92310

Specification

UAP56 Antibody - Product Information

Application WB, IHC, FC, ICC

Primary Accession
Reactivity
Rat

Clonality Monoclonal

Other Names

4F2-LC6; BAT1; Bat1a; D17H6S81E; D6S81E; D6S81Eh; DDX39B; p47; UAP56;

Isotype Rabbit IgG
Host Rabbit
Calculated MW 48991 Da

UAP56 Antibody - Additional Information

Dilution WB~~1:1000

IHC~~1:100~500 FC~~1:10~50

ICC~~N/A
Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human

UAP56

Description Component of the THO subcomplex of the

TREX complex. The TREX complex

specifically associates with spliced mRNA

and not with unspliced pre-mRNA.

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.

UAP56 Antibody - Protein Information

Name DDX39B (<u>HGNC:13917</u>)

Synonyms BAT1, UAP56

Function

Involved in nuclear export of spliced and unspliced mRNA (PubMed:<a

 $href="http://www.uniprot.org/citations/15833825" target="_blank">15833825, PubMed: 15998806, PubMed: 17190602). Component of the TREX complex which is thought to couple mRNA transcription, processing and nuclear export, and specifically associates with spliced mRNA and not with unspliced pre-mRNA$



(PubMed:15833825, PubMed:15998806, PubMed:17190602). The TREX complex is recruited to spliced mRNAs by a transcription-independent mechanism, binds to mRNA upstream of the exon-junction complex (EJC) and is recruited in a splicing- and capdependent manner to a region near the 5' end of the mRNA where it functions in mRNA export to the cytoplasm via the TAP/NXF1 pathway (PubMed:15833825, PubMed:15998806, PubMed:17190602). The THOC1-THOC2- THOC3 core complex alone is sufficient to promote ATPase activity of DDX39B; in the complex THOC2 is the only component that directly interacts with DDX39B (PubMed:33191911). Associates with SARNP/CIP29, which facilitates RNA binding of DDX39B and likely plays a role in mRNA export (PubMed:37578863). May undergo several rounds of ATP hydrolysis during assembly of TREX to drive subsequent loading of components such as ALYREF/THOC4 and CHTOP onto mRNA. Also associates with pre-mRNA independent of ALYREF/THOC4. Involved in the nuclear export of intronless mRNA; the ATP-bound form is proposed to recruit export adapter ALYREF/THOC4 to intronless mRNA; its ATPase activity is cooperatively stimulated by RNA and ALYREF/THOC4 and ATP hydrolysis is thought to trigger the dissociation from RNA to allow the association of ALYREF/THOC4 and the NXF1-NXT1 heterodimer. Involved in transcription elongation and genome stability.

Cellular Location

Nucleus. Nucleus speckle. Cytoplasm. Note=Can translocate to the cytoplasm in the presence of MX1. TREX complex assembly seems to occur in regions surrounding nuclear speckles known as perispeckles

UAP56 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

UAP56 Antibody - Images



