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

BAT1 antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI10971

Specification

BAT1 antibody - C-terminal region - Product Information

Application	**WB**
Primary Accession	Q13838
Other Accession	NM_080598, NP_542165
Reactivity	**Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Goat, Horse, Bovine, Dog**
Predicted	**Human, Zebrafish, Goat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**47kDa KDa**

BAT1 antibody - C-terminal region - Additional Information

Gene ID 7919

Alias Symbol	**BAT1, UAP56, D6S81E**

Other Names
Spliceosome RNA helicase DDX39B, 3.6.4.13, 56 kDa U2AF65-associated protein, ATP-dependent RNA helicase p47, DEAD box protein UAP56, HLA-B-associated transcript 1 protein, DDX39B, BAT1, UAP56

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-BAT1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
BAT1 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

BAT1 antibody - C-terminal region - Protein Information

Name DDX39B (HGNC:13917)

Synonyms BAT1, UAP56

Function
Involved in nuclear export of spliced and unspliced mRNA (PubMed: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 cap-dependent 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

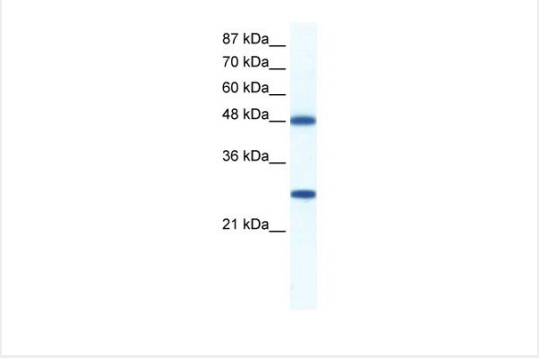
BAT1 antibody - C-terminal region - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

BAT1 antibody - C-terminal region - Images

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



WB Suggested Anti-BAT1 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:12500
Positive Control: Jurkat cell lysate
DDX39B is supported by BioGPS gene expression data to be expressed in Jurkat

BAT1 antibody - C-terminal region - References

Allcock,R.J., et al., (2001) Genes Cells 6 (5), 487-494Reconstitution and Storage:For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.Publications:Bouley, J. et al. Proteomic analysis of BRCA1-depleted cell line reveals a putative role for replication protein A2 up-regulation in BRCA1 breast tumor development. Proteomics. Clin. Appl. 4, 489-98 (2010). WB, Human, Pig, Mouse, Dog, H, Goat, Rabbit, Rat, Guinea pig, Bovine, Zebrafish21137066