

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 Host	Human, Zebrafish, Goat
Clonality	Rabbit
Calculated MW	Polyclonal 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](http://www.uniprot.org/citations/15833825), PubMed: [15998806](http://www.uniprot.org/citations/15998806), PubMed: [17190602](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/15833825), PubMed: [15998806](http://www.uniprot.org/citations/15998806), PubMed: [17190602](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/33191911)). Associates with SARNP/CIP29, which facilitates RNA binding of DDX39B and likely plays a role in mRNA export (PubMed: [37578863](http://www.uniprot.org/citations/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

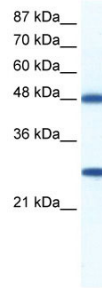
BAT1 antibody - C-terminal region - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

BAT1 antibody - C-terminal region - Images





WB Suggested Anti-BAT1 Antibody Titration: 0.2-1 μ g/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), 487-494 Reconstitution 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, Zebrafish 21137066