

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

---

**BAT1 antibody - C-terminal region - Product Information**

Application	WB
Primary Accession	<a href="#">O13838</a>
Other Accession	<a href="#">NM_080598</a> , <a href="#">NP_542165</a>
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:&lt;a href="http://www.uniprot.org/citations/15833825" target="\_blank"&gt;15833825&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/15998806" target="\_blank"&gt;15998806&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/17190602" target="\_blank"&gt;17190602&lt;/a&gt;). 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:<a href="http://www.uniprot.org/citations/15833825" target="\_blank">15833825</a>, PubMed:<a href="http://www.uniprot.org/citations/15998806" target="\_blank">15998806</a>, PubMed:<a href="http://www.uniprot.org/citations/17190602" target="\_blank">17190602</a>). 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:<a href="http://www.uniprot.org/citations/15833825" target="\_blank">15833825</a>, PubMed:<a href="http://www.uniprot.org/citations/15998806" target="\_blank">15998806</a>, PubMed:<a href="http://www.uniprot.org/citations/17190602" target="\_blank">17190602</a>). 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:<a href="http://www.uniprot.org/citations/33191911" target="\_blank">33191911</a>). Associates with SARNP/CIP29, which facilitates RNA binding of DDX39B and likely plays a role in mRNA export (PubMed:<a href="http://www.uniprot.org/citations/37578863" target="\_blank">37578863</a>). 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

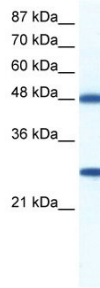
#### **BAT1 antibody - C-terminal region - Protocols**

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  $\mu$ 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