

**DDX39B / UAP56 Antibody (clone 2E4)**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS17258****Specification**

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**DDX39B / UAP56 Antibody (clone 2E4) - Product Information**

Application	IHC-P, IF, WB
Primary Accession	<a href="#">Q13838</a>
Other Accession	<a href="#">7919</a>
Reactivity	Human, Rat, Dog
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Calculated MW	48991

**DDX39B / UAP56 Antibody (clone 2E4) - Additional Information****Gene ID** 7919**Other Names**

DDX39B, BAT1, DEAD box protein UAP56, HLA-B associated transcript 1, UAP56, ATP-dependent RNA helicase p47, D6S81E, Spliceosome RNA helicase BAT1

**Target/Specificity**

Human DDX39B / UAP56

**Reconstitution & Storage**

PBS, pH 7.3, 1% BSA, 50% glycerol, 0.02% sodium azide. Store at -20°C. Minimize freezing and thawing.

**Precautions**

DDX39B / UAP56 Antibody (clone 2E4) is for research use only and not for use in diagnostic or therapeutic procedures.

**DDX39B / UAP56 Antibody (clone 2E4) - Protein Information****Name** DDX39B ([HGNC:13917](#))**Synonyms** BAT1, UAP56**Function**

Involved in nuclear export of spliced and unspliced mRNA. Assembling 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. TREX 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/NFX1 pathway. May undergo several rounds of ATP hydrolysis during assembly of TREX to drive

subsequent loading of components such as ALYREF/THOC and CHTOP onto mRNA. Also associates with pre-mRNA independent of ALYREF/THOC4 and the THO complex. 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

#### **Volume**

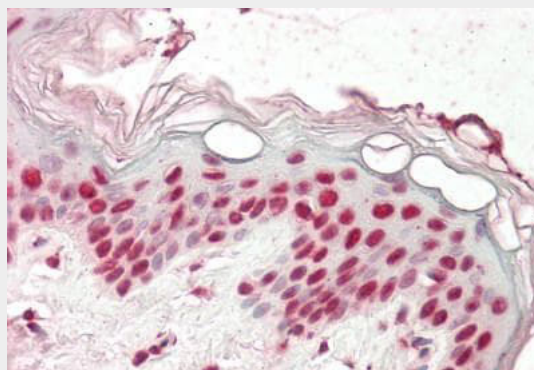
50  $\mu$ l

#### **DDX39B / UAP56 Antibody (clone 2E4) - Protocols**

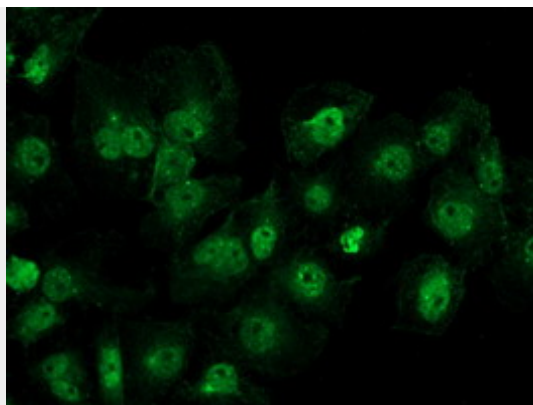
Provided below are standard protocols that you may find useful for product applications.

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

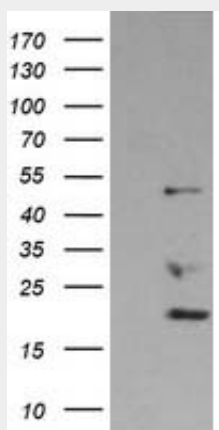
#### **DDX39B / UAP56 Antibody (clone 2E4) - Images**



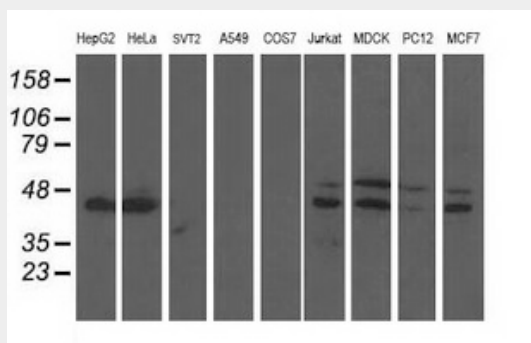
Human Skin: Formalin-Fixed, Paraffin-Embedded (FFPE)



Anti-BAT1 mouse monoclonal antibody immunofluorescent staining of COS7 cells transiently...



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY BAT1...



Western blot of extracts (35 ug) from 9 different cell lines by using anti-BAT1 monoclonal...

#### **DDX39B / UAP56 Antibody (clone 2E4) - Background**

Involved in nuclear export of spliced and unspliced mRNA. Assembling 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. TREX 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/NFX1 pathway. May undergo several rounds of ATP hydrolysis during assembly of TREX to drive subsequent loading of components such as ALYREF/THOC and CHTOP onto mRNA. The TREX complex is essential for the export of Kaposi's sarcoma-associated herpesvirus (KSHV) intronless mRNAs and infectious virus production. Also associates with pre-mRNA independent of

ALYREF/THOC4 and the THO complex. 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.

#### **DDX39B / UAP56 Antibody (clone 2E4) - References**

Peelman L.,et al.Genomics 26:210-218(1995).  
Kalnine N.,et al.Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases.  
Suzuki Y.,et al.Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.  
Shiina T.,et al.Genetics 173:1555-1570(2006).  
Mungall A.J.,et al.Nature 425:805-811(2003).