



DDX39BMouse mAb

Catalog No	YP-mAb-18747
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	DDX39B BAT1 UAP56
Immunogen	Synthesized peptide derived from human DDX39B
Specificity	This antibody detects endogenous levels of DDX39B at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	613D1Rik;4F2-LC6;56 kDa U2AF65-associated protein;A1428441;ATP-dependent RNA helicase p47;B(+)-type amino acid transporter 1;BAT1;Bat1a;D17H6S81E;D17H6S81E-1;D6S81E;D6S81Eh;DDX39B;DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B;DEAD box protein UAP56;DX39B_HUMAN;EC 3.6.1.-;Glycoprotein-associated amino acid transporter b;+AT1;HLA-B-associated transcript 1 protein;HLA-B-associated transcript 1A;HLA-B-associated transcript-1;MGC12751;MGC19235;MGC38799;nuclear RNA helicase (DEAD family);OTTHUMP29229;OTTHUMP165889;OTTHUMP16589;p47;Solute carrier family 7 member 9;Spliceosome RNA helicase BAT1;Spliceosome RNA helicase DDX39B;U2AF65-associayed protein;56-KD;UAP56;DDX39B BAT1 UAP56;Spliceosome RNA helicase DDX39B (56 kDa U2AF65-associated protein) (ATP-dependent RNA helicase p47) (DEAD box protein UAP56) (HLA-B-associated transcript 1 protein)
Observed Band	47kD
Calculated Molecular Weight	5kDa; 49kD(Calculated).
Cell Pathway	Nucleus. Nucleus speckle. Cytoplasm. Can translocate to the cytoplasm in the presence of MX1. TREX complex assembly seems to occur in regions surrounding nuclear speckles known as perispeckles.
Tissue Specificity	



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. ; Splice factor that is required for the first ATP-dependent step in spliceosome assembly and for the interaction of U2 snRNP with the branchpoint. Has both RNA-stimulated ATP binding/hydrolysis activity and ATP-dependent RNA unwinding activity. Even with the stimulation of RNA, the ATPase activity is weak. Can only hydrolyze ATP but not other NTPs. The RNA stimulation of ATPase activity does not have a strong preference for the sequence and length of the RNA. However, ssRNA stimulates the ATPase activity much more strongly than dsRNA. Can unwind 5' or 3' overhangs or blunt end RNA duplexes in vitro. The ATPase and helicase activities are not influenced by U2AF2; the effect of ALYREF/THOC4 is reported conflictingly with [PubMed:23299939] reporting a stimulatory effect. ; (Microbial infection) The TREX complex is essential for Can unwind 5' or 3' overhangs or blunt end RNA duplexes in vitro. The ATPase and helicase activities are not influenced by U2AF2; the effect of ALYREF/THOC4 is reported conflictingly with [PubMed:23299939] reporting a stimulatory effect. ; (Microbial infection) The TREX complex is essential for the export of Kaposi's sarcoma-associated herpesvirus (KSHV) intronless mRNAs and infectious virus production.

Background

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images