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Anti-BAT1 Antibody (C-term)

Catalog Number: A03490-1

About DDX39B

Component of the THO subcomplex of the TREX complex. The TREX complex specifically associates with spliced mRNA and not with unspliced pre-mRNA. It 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. The recruitment occurs via an interaction between THOC4 and the cap-binding protein NCBP1. UAP56 functions as a bridge between THOC4 and the THO complex. The TREX complex is essential for the export of Kaposi's sarcoma-associated herpesvirus (KSHV) intronless mRNAs and infectious virus production. The recruitment of the TREX complex to the intronless viral mRNA occurs via an interaction between KSHV ORF57 protein and THOC4. Splice factor that is required for the first ATP-dependent step in spliceosome assembly and for the interaction of U2 snRNP with the branchpoint. It 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. It 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. It can unwind 5' or 3' overhangs or blunt end RNA duplexes in vitro. The ATPase and helicase activities are not influenced by U2AF2 and THOC4.

Overview

Product Name	Anti-BAT1 Antibody (C-term)
Reactive Species	Human
Description	Boster Bio Anti-BAT1 Antibody (C-term) (Catalog # A03490-1). Tested in WB, Flow Cytometry, IHC-P application(s). This antibody reacts with Human.
Application	Flow Cytometry, IHC-P, WB
Clonality	Polyclonal
Formulation	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage Instructions	Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q13838

Technical Details

Immunogen	This BAT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 351-380 amino acids from the C-terminal region of human BAT1.
Predicted Reactive Species	Bovine, Chicken, Drosophila, Mouse, Pig, Rat
Isotype	Rabbit IgG

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Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Suggested Dilutions	WB: 1:1000 IHC-P: 1:10-1:50 FC: 1:10-1:50

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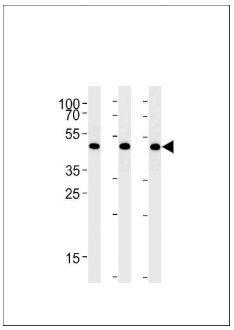
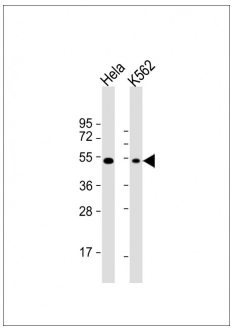
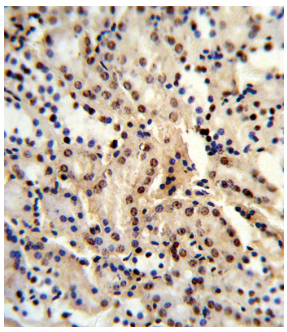
Anti-BAT1 Antibody (C-term) (A03490-1) Images



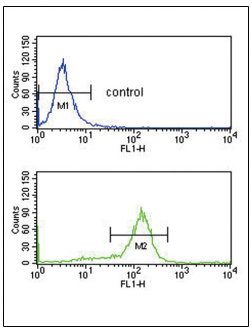
BAT1 Antibody (C-term) western blot analysis in A431,Hela,Jurkat cell line lysates (35ug/lane). This demonstrates the BAT1 antibody detected the BAT1 protein (arrow).



All lanes : Anti-BAT1 Antibody (C-term) at 1:1000 dilutionLane 1: Hela whole cell lysateLane 2: K562 whole cell lysateLysates/proteins at 20 µg per lane. SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 49 kDaBlocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human kidney reacted with BAT1 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



BAT1 Antibody (C-term) (Cat. #A03490-1) flow cytometry analysis of K562 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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