Datasheet for ABIN1047670

DDX39B Protein (AA 2-251, partial) (GST tag)

1 Image | 1 Publication

Go to Product page

Overview

Quantity:	100 µg
Target:	DDX39B
Protein Characteristics:	AA 2-251, partial
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DDX39B protein is labelled with GST tag.
Application:	ELISA, SDS-PAGE (SDS)

Product Details

Sequence:	AENDVDNELL DYEDDEVETA AGGDGAEAPA KKDVKGSYVS IHSSGFRDFL LKPELLRAIV DCGFEHPSEV QHECIPQAIL GMDVLCQAKS GMGKTAVFVL ATLQQLEPVT GQVSVLVMCH TRELAFQISK EYERFSKYMP NVKVAVFFGG LSIKKDEEVL KKNCPHIVVG TPGRILALAR NKSLNLKHIK HFILDECDKM LEQLDMRRDV QEIFRMTPHE KQVMMFSATL SKEIRPVCRK FMQDPMEIFV
Characteristics:	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. DDX39B functions as a bridge between THOC4 and the THO complex. The TREX complex is essential for the export of

Product Details

	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. Ref.9 Ref.10 Ref.13 Ref.14 Ref.16 Ref.17 Ref.18 Ref.24 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 and THOC4. Ref.9 Ref.10 Ref.13 Ref.14 Ref.16 Ref.17 Ref.18 Ref.24
Purity:	90 %

Target Details

Target:	DDX39B
Alternative Name:	Spliceosome RNA helicase DDX39B (DDX39B Products)
Background:	Synonyms: 56 kDa U2AF65-associated protein,ATP-dependent RNA helicase p47,DEAD box protein UAP56,HLA-B-associated transcript 1 protein
Molecular Weight:	55.6 kD
UniProt:	Q13838
Pathways:	Ribonucleoprotein Complex Subunit Organization

Application Details

Comment:	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	PBS buffer, 20mM GSH

Handling

Storage:	-20 °C

Publications

Product cited in:

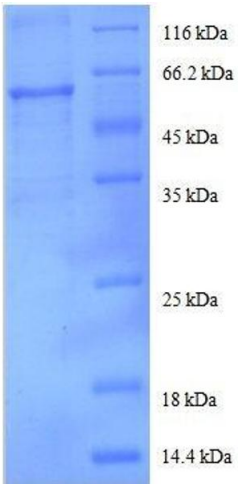
Lenz, Herten, Gerzer, Drummer: "Regulation of natriuretic peptide (urodilatin) release in a human kidney cell line." in: **Kidney international**, Vol. 55, Issue 1, pp. 91-9, (1999) (PubMed).

Klodt, Kuhn, Marx, Martin, Rösch, Forssmann, Adermann: "Synthesis, biological activity and isomerism of guanylate cyclase C-activating peptides guanylin and uroguanylin." in: **The journal of peptide research : official journal of the American Peptide Society**, Vol. 50, Issue 3, pp. 222-30, (1998) (PubMed).

Marx, Klodt, Meyer, Gerlach, Rösch, Forssmann, Adermann: "One peptide, two topologies: structure and interconversion dynamics of human uroguanylin isomers." in: **The journal of peptide research : official journal of the American Peptide Society**, Vol. 52, Issue 3, pp. 229-40, (1998) (PubMed).

Hess, Kuhn, Schulz-Knappe, Raida, Fuchs, Klodt, Adermann, Kaever, Cetin, Forssmann: "GCAP-II: isolation and characterization of the circulating form of human uroguanylin." in: **FEBS letters**, Vol. 374, Issue 1, pp. 34-8, (1995) (PubMed).

Images



SDS-PAGE

Image 1.