



DDX21 mouse mAb

Catalog No	YP-mAb-11988
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	DDX21
Immunogen	Synthesized peptide derived from human DDX21 AA range: 287-337
Specificity	This antibody detects endogenous levels of DDX21 at Human/Mouse/Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, mouse,IgG
Purification	The antibody was affinity-purified from mouse serum by affinity-chromatography using specific immunogen.
Dilution	WB 1 :500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Calculated Molecular Weight	86kD
Synonyms	5E7;DEAD box protein 21;DExD-box helicase 21;EC:3.6.4.13;Gu alpha;DDX21
Cell Pathway	Nucleus, nucleolus . Nucleus, nucleoplasm . Cytoplasm, cytosol . Mitochondrion . Present both in nucleolus and nucleoplasm. Interaction with JUN promotes translocation from the nucleolus to the nucleoplasm (PubMed:11823437, PubMed:18180292). Interaction with WDR46 is required for localization to the nucleolus (PubMed:23848194). Colocalizes in the cytosol with DDX1, DHX36 and TICAM1. The multi-helicase-TICAM1 complex may translocate to the mitochondria upon poly(I:C) RNA ligand stimulation (By similarity). .
Tissue Specificity	
Function	disease:Autoantigen found in patients with the watermelon stomach disease, which is characterized by prominent stripes of ectatic vascular tissue in the stomach similar to stripes on a watermelon. Chronic gastrointestinal bleeding occurs and approximately half of the patients have associated autoimmune disorders.,domain:The 3 X 5 AA repeats seem to be critical for the RNA folding activity.,domain:The two enzymatic activities reside in two separate domains, the helicase in the N-terminus and the foldase in the C-terminus.,function:Can unwind double-stranded RNA (helicase) and can fold or introduce a secondary structure to a single-stranded RNA (foldase). Functions as cofactor for JUN-



activated transcription. Involved in rRNA processing.,similarity:Belongs to the DEAD box helicase family. DDX21/DDX50 subfamily.,similarity:Contains 1 helicase ATP-binding domain.,similarity:Contains 1 helica

Background

DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a DEAD box protein, which is an antigen recognized by autoimmune antibodies from a patient with watermelon stomach disease. This protein unwinds double-stranded RNA, folds single-stranded RNA, and may play important roles in ribosomal RNA biogenesis, RNA editing, RNA transport, and general transcription. [provided by RefSeq, Jul 2008],

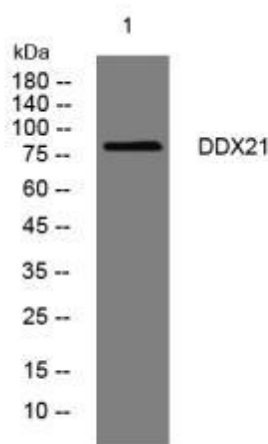
matters needing attention

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



Western blot analysis of lysates from VEC cells, primary antibody was diluted at 1:1000, 4° over night