

KD-Validated Anti-DDX50 Mouse Monoclonal Antibody

Mouse monoclonal antibody

Catalog # AGI2047

Product Information

Application	WB, ICC
Primary Accession	Q9BQ39
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Names	24GB8345
Calculated MW	82565
Gene Name	DDX50
Aliases	DDX50; DExD-Box Helicase 50; RH-II/GuB; GU2; GUB; DEAD (Asp-Glu-Ala-Asp) Box Polypeptide 50; ATP-Dependent RNA Helicase DDX50; DEAD-Box Helicase 50; DEAD Box Protein 50; MGC3199; Gu-Beta; Malignant Cell Derived RNA Helicase; RNA Helicase II/Gu Beta; Nucleolar Protein GU2; Nucleolar Protein Gu2; EC 3.6.4.13; EC 3.6.1; Mcdrh
Immunogen	Recombinant protein of human DDX50

Additional Information

Gene ID	79009
Other Names	ATP-dependent RNA helicase DDX50, 3.6.4.13, DEAD box protein 50, Gu-beta, Nucleolar protein Gu2, DDX50

Protein Information

Name	DDX50
Function	ATP-dependent RNA helicase that may play a role in various aspects of RNA metabolism including pre-mRNA splicing or ribosomal RNA production (PubMed: 12027455). Also acts as a viral restriction factor and promotes the activation of the NF-kappa-B and IRF3 signaling pathways following its stimulation with viral RNA or infection with RNA and DNA viruses (PubMed: 35215908). For instance, decreases vaccinia virus, herpes simplex virus, Zika virus or dengue virus replication during the early stage of infection (PubMed: 28181036 , PubMed: 35215908). Mechanistically, acts via the adapter TICAM1 and independently of the DDX1-DDX21-DHX36 helicase complex to induce the production of interferon-beta (PubMed: 35215908).
Cellular Location	Nucleus, nucleolus. Cytoplasm Note=Accumulates in the cytoplasm to activate signaling upstream of IRF3 during viral infection.
Tissue Location	Highest expression in skeletal muscle, liver, heart, placenta, and kidney.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.