10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-Ubiquitin Specific Peptidase 39 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1700

Product Information

Application	WB, FC, ICC
Primary Accession	Q53GS9
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB1810
Calculated MW	65381
Gene Name	USP39
Aliases	USP39; Ubiquitin Specific Peptidase 39; SNRNP65; CGI-21; SAD1; Small Nuclear Ribonucleoprotein 65kDa (U4/U6.U5); U4/U6.U5 Tri-SnRNP-Associated 65 KDa Protein; Ubiquitin Carboxyl-Terminal Hydrolase 39; Ubiquitin Specific Protease 39; SAD1 Homolog; SnRNP Assembly Defective 1 Homolog (S. Cerevisiae); Inactive Ubiquitin-Specific Peptidase 39; U4/U6.U5 Tri-SnRNP-Associated Protein; SnRNP Assembly Defective 1 Homolog; EC 3.4.19.12; HSPC332; 65K
Immunogen	A synthesized peptide derived from human USP39

Additional Information

Gene ID	10713
Other Names	Ubiquitin carboxyl-terminal hydrolase 39, 3.4.19.12, SAD1 homolog, U4/U6.U5 tri-snRNP-associated 65 kDa protein, USP39 (HGNC:20071)

Protein Information

Name	USP39 (HGNC:20071)
Function	Deubiquitinating enzyme that plays a role in many cellular processes including cellular antiviral response, epithelial morphogenesis, DNA repair or B-cell development (PubMed:33127822, PubMed:34614178). Plays a role in pre-mRNA splicing as a component of the U4/U6-U5 tri-snRNP, one of the building blocks of the precatalytic spliceosome (PubMed:11350945, PubMed:26912367). Specifically regulates immunoglobulin gene rearrangement in a spliceosome-dependent manner, which involves modulating chromatin interactions at the Igh locus and therefore plays an essential role in B-cell development (By similarity). Regulates AURKB mRNA levels, and thereby plays a role in cytokinesis and in the spindle checkpoint (PubMed:18728397). Regulates apoptosis and G2/M cell cycle checkpoint in response to DNA damage by deubiquitinating and stabilizing CHK2

(PubMed:30771428). Also plays an important role in DNA repair by controlling the recruitment of XRCC4/LIG4 to DNA double-strand breaks for non-homologous end-joining repair (PubMed:34614178). Participates in antiviral activity by affecting the type I IFN signaling by stabilizing STAT1 and decreasing its 'Lys-6'-linked ubiquitination (PubMed:33127822). Contributes to non-canonical Wnt signaling during epidermal differentiation (By similarity). Acts as a negative regulator NF-kappa-B activation through deubiquitination of 'Lys-48'-linked ubiquitination of NFKBIA (PubMed:36651806).

Cellular Location Nucleus

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