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USP39 Antibody

Rabbit mAb
Catalog # AP92705

Product Information

Application	WB, IHC, IF, ICC, IHF
Primary Accession	Q53GS9
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	Inactive ubiquitin specific peptidase 39; SAD1; snRNP ASSEMBLY DEFECTIVE 1; SNRNP65; Ubiquitin specific peptidase 39; USP39;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	65381

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human USP39
Description	May play a role in mRNA splicing. It is unsure if the protein really exhibits hydrolase activity. Could be a competitor of ubiquitin C-terminal hydrolases (UCHs).
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

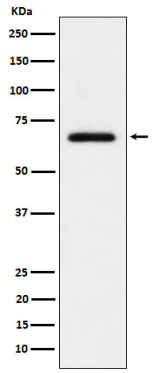
Protein Information

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

Images



Western blot analysis of USP39 expression in HeLa cell lysate.