

# USP39 Antibody

Rabbit mAb

Catalog # AP92736

## Product Information

<b>Application</b>	WB, IHC, IF, ICC, IHF
<b>Primary Accession</b>	<a href="#">Q53GS9</a>
<b>Reactivity</b>	Human, Mouse
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	CGI 21; SAD1; SNRNP65; USP39;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	65381

## Additional Information

<b>Dilution</b>	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human USP39
<b>Description</b>	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).
<b>Storage Condition and Buffer</b>	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

<b>Name</b>	USP39 ( <a href="#">HGNC:20071</a> )
<b>Function</b>	Deubiquitinating enzyme that plays a role in many cellular processes including cellular antiviral response, epithelial morphogenesis, DNA repair or B-cell development (PubMed: <a href="#">33127822</a> , PubMed: <a href="#">34614178</a> ). 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: <a href="#">11350945</a> , PubMed: <a href="#">26912367</a> ). 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: <a href="#">18728397</a> ). Regulates apoptosis and G2/M cell cycle checkpoint in response to DNA damage by deubiquitinating and stabilizing CHK2 (PubMed: <a href="#">30771428</a> ). 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: <a href="#">34614178</a> ). Participates in antiviral activity by affecting the type I IFN signaling by stabilizing STAT1 and

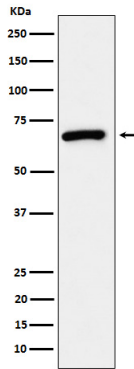
decreasing its 'Lys-6'-linked ubiquitination (PubMed:[33127822](#)). Contributes to non-canonical Wnt signaling during epidermal differentiation (By similarity). Acts as a negative regulator NF-kappa-B activation through deubiquitination of 'Lys-48'-linked ubiquitination of NFKBIA (PubMed:[36651806](#)).

#### Cellular Location

Nucleus

## Images

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Western blot analysis of USP39 expression in 293T cell lysate.

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