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USP38 Polyclonal Antibody
Catalog # AP73020

Specification

USP38 Polyclonal Antibody - Product Information

Application	**WB**
Primary Accession	Q8NB14
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**

USP38 Polyclonal Antibody - Additional Information

Gene ID 84640

Other Names
USP38; KIAA1891; Ubiquitin carboxyl-terminal hydrolase 38; Deubiquitinating enzyme 38; HP43.8KD; Ubiquitin thioesterase 38; Ubiquitin-specific-processing protease 38

Dilution
WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.

Format
Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions
-20℃

USP38 Polyclonal Antibody - Protein Information

Name USP38

Synonyms KIAA1891

Function
Deubiquitinating enzyme that plays a role in various cellular processes, including DNA repair, cell cycle regulation, and immune response (PubMed:22689415, PubMed:30497519, PubMed:31874856, PubMed:35238669). Plays a role in the inhibition of type I interferon signaling by mediating the 'Lys-33' to 'Lys-48' ubiquitination transition of TBK1 leading to its degradation (PubMed:27692986). Cleaves the ubiquitin chain from the histone demethylase LSD1/KDM1A and prevents it from degradation by the 26S proteasome, thus maintaining LSD1 protein level in cells (PubMed:30497519). Plays a role in the DNA damage response by regulating the deacetylase activity of HDAC1 (PubMed:<a

href="http://www.uniprot.org/citations/31874856" target="_blank">31874856). Mechanistically, removes the 'Lys-63'-linked ubiquitin chain promoting the deacetylase activity of HDAC1 in response to DNA damage (PubMed:31874856). Also acts as a specific deubiquitinase of histone deacetylase 3/HDAC3 and cleaves its 'Lys-63'-linked ubiquitin chains to lower its histone deacetylase activity (PubMed:32404892). Regulates MYC levels and cell proliferation via antagonizing ubiquitin E3 ligase FBXW7 thereby preventing MYC 'Lys-48'- linked ubiquitination and degradation (PubMed:34102342). Participates in antiviral response by removing both 'Lys-48'-linked and 'Lys-63'- linked polyubiquitination of Zika virus envelope protein E (PubMed:34696459). Constitutively associated with IL-33R/IL1RL1, deconjugates its 'Lys-27'-linked polyubiquitination resulting in its autophagic degradation (PubMed:35238669).

Cellular Location
Cytoplasm. Nucleus Note=In response to DNA damage, recruited to DNA damage sites in the nucleus.

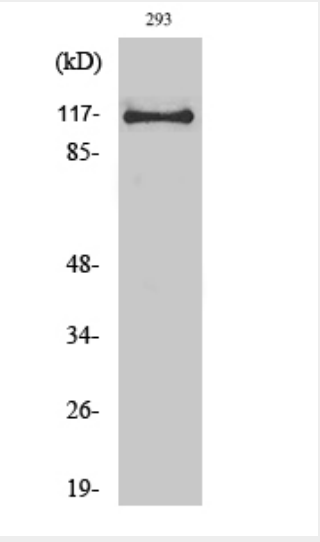
Tissue Location
Highly expressed in skeletal muscle. Expressed in adrenal gland.

USP38 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

USP38 Polyclonal Antibody - Images



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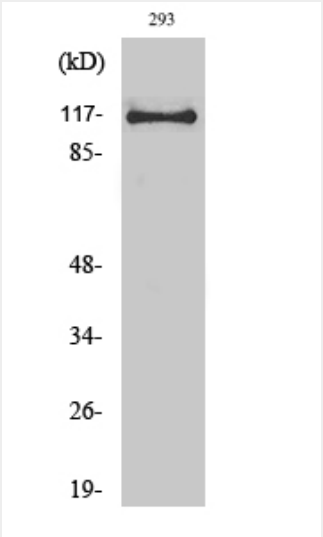

USP38 Polyclonal Antibody - Background

Deubiquitinating enzyme exhibiting a preference towards 'Lys-63'-linked ubiquitin chains.