

Usp12 Antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI13857**Specification**

Usp12 Antibody - N-terminal region - Product Information

| | |
|-------------------|--|
| Application | WB |
| Primary Accession | Q9D9M2 |
| Other Accession | NM_011669 , NP_035799 |
| Reactivity | Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog |
| Predicted | Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 41kDa KDa |

Usp12 Antibody - N-terminal region - Additional Information**Gene ID** 22217**Alias Symbol** **Ubh1****Other Names**

Ubiquitin carboxyl-terminal hydrolase 12, 3.4.19.12, Deubiquitinating enzyme 12, Ubiquitin thioesterase 12, Ubiquitin-hydrolyzing enzyme 1, Ubiquitin-specific-processing protease 12, Usp12, Ubh1

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-Usp12 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

Usp12 Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Usp12 Antibody - N-terminal region - Protein Information**Name** Usp12**Synonyms** Ubh1**Function**

Deubiquitinating enzyme that plays various roles in the regulation of the immune response and inflammation. In complex with WDR48, acts as a potential tumor suppressor by positively regulating PHLPP1 stability. During TCR engagement and activation, translocates into the

cytoplasm and deubiquitinates its substrates LAT and TRAF1 and prevents their lysosome-dependent degradation to stabilize the TCR signaling complex at the plasma membrane. Plays an essential role in the selective LPS-induced macrophage response through the activation of NF-kappa-B pathway. In addition, promotes that antiviral immune response through targeting DNA sensor IFI16 to inhibit its proteasome-dependent degradation. Participates in the interferon signaling pathway and antiviral response independently of its deubiquitinase activity by maintaining nuclear phosphorylated STAT1 levels via inhibition of its CREBBP-mediated acetylation and subsequent dephosphorylation (By similarity). Plays an intrinsic role in promoting the differentiation, activation and proliferation of CD4(+) T-cell by activating the NF-kappa-B signaling pathway through deubiquitinating and stabilizing B-cell lymphoma/leukemia 10/BCL10 (PubMed:33941870). In myeloid-derived suppressor cells promotes the activation of the NF-kappa-B via deubiquitination and stabilization of RELA (PubMed:35898171). Regulates the 'Lys-63'-linked polyubiquitin chains of BAX and thereby modulates the mitochondrial apoptotic process (By similarity).

Cellular Location

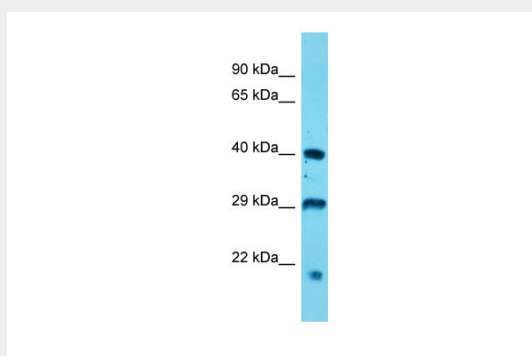
Nucleus {ECO:0000250|UniProtKB:O75317}. Cytoplasm {ECO:0000250|UniProtKB:O75317}. Cell membrane {ECO:0000250|UniProtKB:O75317}. Note=Translocates from the nucleus to the cytosol on TCR stimulation, while it translocates into the nucleus in IFN signaling. USP12/WDR20/WDR48 complex is localized mainly to the plasma membrane. {ECO:0000250|UniProtKB:O75317}

Usp12 Antibody - N-terminal region - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Usp12 Antibody - N-terminal region - Images



Host: Rabbit
Target Name: Usp12
Sample Tissue: Mouse Stomach lysates
Antibody Dilution: 1.0µg/ml

Usp12 Antibody - N-terminal region - References

Carninci P., et al. Science 309:1559-1563(2005).
Baek K.-H., et al. DNA Seq. 13:145-148(2002).