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USP18 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI12666

Specification

USP18 antibody - N-terminal region - Product Information

Application	**WB**
Primary Accession	Q9UMW8
Other Accession	NM_017414, NP_059110
Reactivity	**Human, Mouse, Rat, Rabbit, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Pig, Horse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**43kDa KDa**

USP18 antibody - N-terminal region - Additional Information

Gene ID 11274

Alias Symbol	**ISG43, UBP43**

Other Names
Ubl carboxyl-terminal hydrolase 18, 3.4.19.-, 43 kDa ISG15-specific protease, hUBP43, ISG15-specific-processing protease, Ubl thioesterase 18, USP18, ISG43

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-USP18 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
USP18 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

USP18 antibody - N-terminal region - Protein Information

Name USP18

Synonyms ISG43

Function
Interferon-induced ISG15-specific protease that plays a crucial role for maintaining a proper balance of ISG15-conjugated proteins in cells (PubMed:11788588). Regulates protein ISGylation by efficiently cleaving ISG15 conjugates linked via isopeptide bonds. Regulates T-cell activation and T-helper 17 (Th17) cell differentiation by deubiquitinating TAK1, likely to keep

TAK1-TAB complexes in steady conditions (PubMed:23825189). In turn, restricts activation of NF- kappa-B, NFAT, and JNK as well as expression of IL2 in T-cells after TCR activation (PubMed:23825189). Acts as a molecular adapter with USP20 to promote innate antiviral response through deubiquitinating STING1 (PubMed:27801882). Involved also in the negative regulation of the inflammatory response triggered by type I interferon (PubMed:27325888, PubMed:28165510). Upon recruitment by STAT2 to the type I interferon receptor subunit IFNAR2 interferes with the assembly of the ternary interferon-IFNAR1-IFNAR2 complex and acts as a negative regulator of the type I interferon signaling pathway (PubMed:28165510).

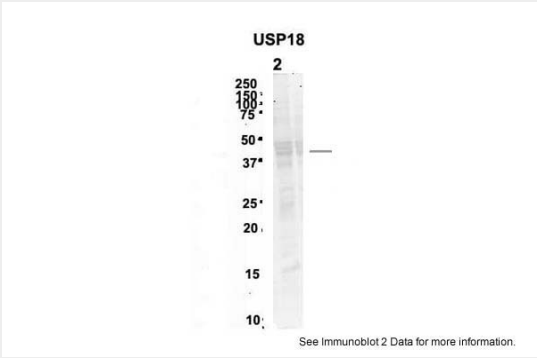
Cellular Location
[Isoform 1]: Cytoplasm

USP18 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 Cytomety
- Cell Culture

USP18 antibody - N-terminal region - Images



USP18 antibody - N-terminal region validated by WB using Mouse Brain lysate at 2µg/ml.

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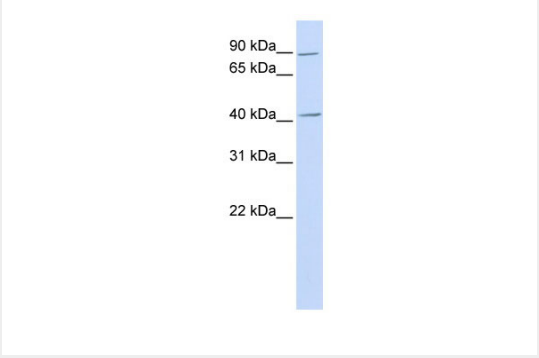

WB Suggested Anti-USP18 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:62500
Positive Control: Hela cell lysate

USP18 antibody - N-terminal region - References

Yan,M.,(2007)Blood110(1),305-312ReconstitutionandStorage:Forshorttermuse,storeat2-8Cupto1week.Forlongtermstorage,storeat-20Cinsmallaliquotstopreventfreeze-thawcycles.