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USP18 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI12666

Product Information

Application	WB
Primary Accession	Q9UMW8
Other Accession	NM_017414, NP_059110
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Pig, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43011

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.

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, PubMed:38421872). Regulates protein ISGylation by efficiently cleaving ISG15 conjugates linked via isopeptide bonds (PubMed:11788588, PubMed:38421872). Acts as a negative regulator of cGAS-STING signaling be mediating deISGylation of CGAS (PubMed:38421872). Regulates T-cell activation and T-helper 17 (Th17) cell

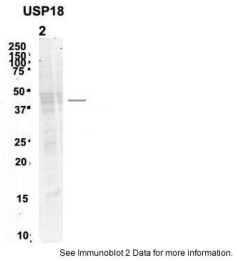
differentiation by deubiquitinating TAK1, likely to keep TAK1-TAB complexes in steady conditions (PubMed:23825189). In turn, restricts activation of NF-kappa-B, NFAT, and JNK as well as expression of IL2 in T-cells after TCR activation (PubMed:23825189). Acts as a molecular adapter with USP20 to promote 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

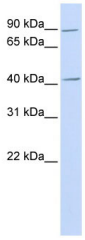
References

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

Images



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



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.