

# USP18 antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI12666

## Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">Q9UMW8</a>
<b>Other Accession</b>	<a href="#">NM_017414</a> , <a href="#">NP_059110</a>
<b>Reactivity</b>	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
<b>Predicted</b>	Human, Pig, Horse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	43011

## Additional Information

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<b>Gene ID</b>	11274
<b>Alias Symbol</b>	ISG43, UBP43
<b>Other Names</b>	Ubl carboxyl-terminal hydrolase 18, 3.4.19.-, 43 kDa ISG15-specific protease, hUBP43, ISG15-specific-processing protease, Ubl thioesterase 18, USP18, ISG43
<b>Format</b>	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
<b>Reconstitution &amp; Storage</b>	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.
<b>Precautions</b>	USP18 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	USP18
<b>Synonyms</b>	ISG43
<b>Function</b>	Interferon-induced ISG15-specific protease that plays a crucial role for maintaining a proper balance of ISG15-conjugated proteins in cells (PubMed: <a href="#">11788588</a> ). 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: <a href="#">23825189</a> ). 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](#)).

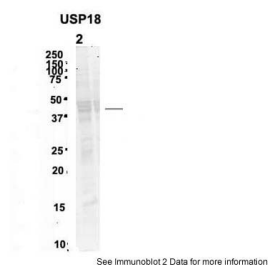
## Cellular Location

[Isoform 1]: Cytoplasm

## References

Yan, M., (2007) Blood 110(1), 305-312 Reconstitution and Storage: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Images



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