

UBP43 / USP18 Antibody (aa40-49)
Rabbit Polyclonal Antibody
Catalog # ALS11628**Specification**

UBP43 / USP18 Antibody (aa40-49) - Product Information

Application	IHC
Primary Accession	O9UMW8
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43kDa KDa

UBP43 / USP18 Antibody (aa40-49) - Additional Information**Gene ID** 11274**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

Target/Specificity

Amino acids 40 to 49 of human USP18

Reconstitution & Storage

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions

UBP43 / USP18 Antibody (aa40-49) is for research use only and not for use in diagnostic or therapeutic procedures.

UBP43 / USP18 Antibody (aa40-49) - 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

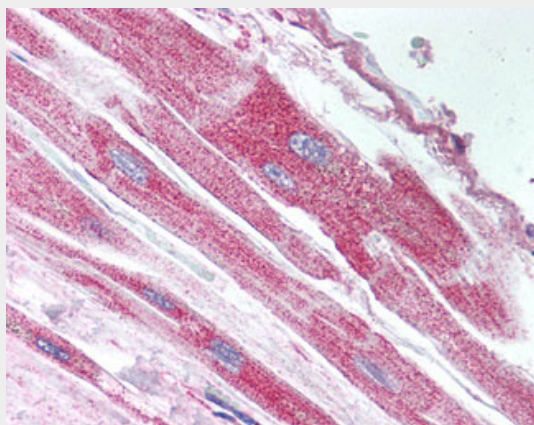
[Isoform 1]: Cytoplasm

UBP43 / USP18 Antibody (aa40-49) - 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](#)

UBP43 / USP18 Antibody (aa40-49) - Images



Anti-USP18 antibody IHC of human heart.

UBP43 / USP18 Antibody (aa40-49) - Background

Can efficiently cleave only ISG15 fusions including native ISG15 conjugates linked via isopeptide bonds. Necessary to maintain a critical cellular balance of ISG15-conjugated proteins in both healthy and stressed organisms.

UBP43 / USP18 Antibody (aa40-49) - References

Li X.-L., et al. Submitted (AUG-1999) to the EMBL/GenBank/DDBJ databases.
Schwer H., et al. Genomics 65:44-52(2000).
Wiemann S., et al. Genome Res. 11:422-435(2001).

Kalnina N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Collins J.E., et al. Genome Biol. 5:R84.1-R84.11(2004).