# **USP18** Rabbit pAb

Catalog No.: A16739 8 Publications



# **Basic Information**

#### **Observed MW**

34kDa

### **Calculated MW**

43kDa

#### Category

Primary antibody

## **Applications**

WB,IHC-P,IF/ICC,ELISA

#### **Cross-Reactivity**

Human, Mouse, Rat

# **Background**

The protein encoded by this gene belongs to the ubiquitin-specific proteases (UBP) family of enzymes that cleave ubiquitin from ubiquitinated protein substrates. It is highly expressed in liver and thymus, and is localized to the nucleus. This protein efficiently cleaves only ISG15 (a ubiquitin-like protein) fusions, and deletion of this gene in mice results in a massive increase of ISG15 conjugates in tissues, indicating that this protein is a major ISG15-specific protease. Mice lacking this gene are also hypersensitive to interferon, suggesting a function of this protein in downregulating interferon responses, independent of its isopeptidase activity towards ISG15.

## **Recommended Dilutions**

**WB** 1:1000 - 1:5000

**IHC-P** 1:50 - 1:200

**IF/ICC** 1:50 - 1:200

**ELISA** Recommended starting

concentration is 1 µg/mL.

Please optimize the
concentration based on
your specific assay
requirements.

# Immunogen Information

**Gene ID**Swiss Prot
11274
Q9UMW8

#### **Immunogen**

Synthetic peptide. This information is considered to be commercially sensitive.

## **Synonyms**

ISG43; UBP43; PTORCH2; USP18

## **Contact**

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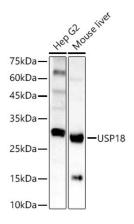
## **Product Information**

Source	Isotype	Purification
Rabbit	IgG	Affinity purification

#### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

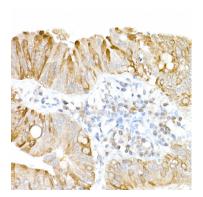


Western blot analysis of various lysates using USP18 Rabbit pAb (A16739) at 1:3000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates / proteins: 25  $\mu$ g per lane.

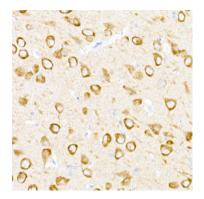
Blocking buffer: 3 % nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

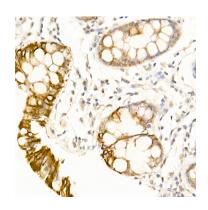
Exposure time: 60s.



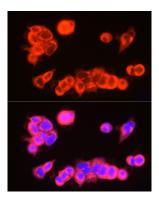
Immunohistochemistry analysis of paraffinembedded Human colon carcinoma using USP18 Rabbit pAb (A16739) at dilution of 1:20 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



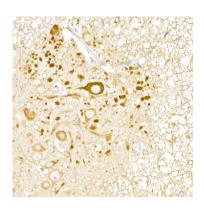
Immunohistochemistry analysis of paraffinembedded Rat brain using USP18 Rabbit pAb (A16739) at dilution of 1:20 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Human colon using USP18 Rabbit pAb (A16739) at dilution of 1:20 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunofluorescence analysis of MCF7 cells using USP18 Rabbit pAb (A16739) at dilution of 1:200 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of paraffinembedded Mouse spinal cord using USP18 Rabbit pAb (A16739) at dilution of 1:20 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.