

# **USP13 Polyclonal Antibody**

#### Description

Product type Primary Antibody

Code BT-AP09434

Host Rabbit

Isotype IgG

Size 20ul, 50ul, 100ul

Immunogen The antiserum was produced against synthesized peptide derived from human USP13. AA range:811-860

Mol wt 97299

Species reactivity Human, Mouse

Clonality Polyclonal

Recommended application WB, IHC-p, ELISA

Concentration 1 mg/ml

Full name USP13 Antibody

Synonyms USP13; ISOT3; Ubiquitin carboxyl-terminal hydrolase 13; Deubiquitinating enzyme 13; Isopeptidase T-3;

ISOT-3; Ubiquitin thioesterase 13; Ubiquitin-specific-processing protease 13

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

#### Background

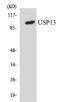
Ubiquitinating enzymes (UBEs) catalyze protein ubiquitination, a reversible process countered by deubiquitinating enzyme (DUB) action. Five DUB subfamilies are recognized, including the USP, UCH, OTU, MJD, and JAMM enzymes. Ubiquitin carboxyl-terminal hydrolase 13 (USP13; isopeptidase T-3) contains four ubiquitin-associated/translation elongation factor EF1B, amino terminal (UBA) domains and one ubiquitin-specific processing protease (UBP) domain. The UBP domain of USP13 contains a catalytic site, a zinc finger domain, and two UBA domains. Similar to other USP family members, USP13 contains cysteines and histidines that are likely involved in its catalytic mechanism. Studies show that USP13 plays a critical role in autophagy through the deubiquitination of target proteins such as BECN1 and USP10. Research also suggests that USP13 is implicated in the pathogenesis of melanoma through its ability to regulate the ubiquitination status of MITF.

## Recommended Dilution

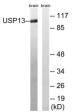
WB: 1: 500 - 1: 2000 IHC: 1: 100 - 1: 300 ELISA: 1: 40000

Not yet tested in other applications.

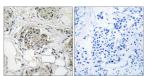
## **Images**



Western blot analysis of the lysates from RAW264.7 cells using USP13 antibody.



Western blot analysis of lysates from mouse brain, using USP13 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using USP13 Antibody. The picture on the right is blocked with the synthesized peptide.

## Storage

-20°C for one year

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