

DATASHEET

USP13 Rabbit Polyclonal Antibody

CAT. NO. APA13882

KEY FEATURES

Target	USP13	Source / Host	Rabbit
Reactivity	Human, Mouse	Clonality	Polyclonal
Applications	WB, IHC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at-20°C

BACKGROUND

Deubiquitinase that mediates deubiquitination of target proteins such as BECN1, MITF, SKP2 and USP10 and is involved in various processes such as autophagy, endoplasmic reticulum-associated degradation (ERAD), cell cycle progression or DNA damage response , cell cycle progression or DNA damage response . Component of a regulatory loop that controls autophagy and p53/TP53 levels: mediates deubiquitination of BECN1, a key regulator of autophagy, leading to stabilize the PIK3C3/VPS34-containing complexes. Alternatively, forms with NEDD4 a deubiquitination complex, which subsequently stabilizes VPS34 to promote autophagy . Also deubiquitinates USP10, an essential regulator of p53/TP53 stability.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
IHC	1:50 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to USP13
Specificity	Recognizes endogenous levels of USP13 protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human USP13
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 90; Observed: 97 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	ISOT3; Ubiquitin carboxyl-terminal hydrolase 13; Deubiquitinating enzyme 13; Isopeptidase T-3; ISOT-3; Ubiquitin thioesterase 13; Ubiquitin-specific-processing protease 13
Gene Symbol	USP13
Entrez Gene	8975(Human); 72607(Mouse)
SwissProt	Q92995(Human); Q5BKP2(Mouse)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

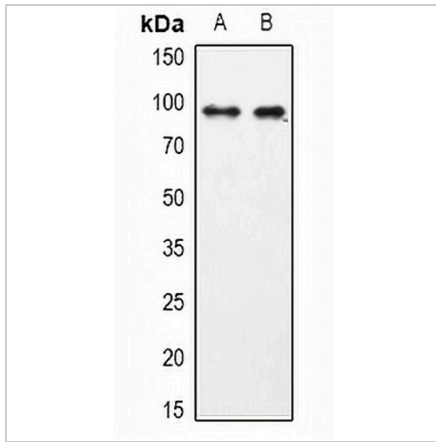
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

DATASHEET

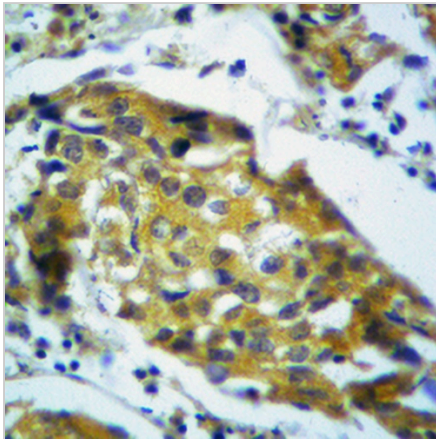
USP13 Rabbit Polyclonal Antibody

CAT. NO. APA13882

DATA



Western blot analysis of USP13 expression in mouse heart (A), HeLa (B) whole cell lysates. (Predicted band size: 90; 97 kD; Observed band size: 97 kD)



Immunohistochemical analysis of USP13 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.