

Datasheet for ABIN1882150
anti-USP5 antibody (N-Term)



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Overview

Quantity:	400 µL
Target:	USP5
Binding Specificity:	AA 59-90, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This USP5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This USP5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 59-90 amino acids from the N-terminal region of human USP5.
Clone:	RB4271
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	USP5
Alternative Name:	USP5 (USP5 Products)

Target Details

Background: Modification of target proteins by ubiquitin participates in a wide array of biological functions. Proteins destined for degradation or processing via the 26 S proteasome are coupled to multiple copies of ubiquitin. However, attachment of ubiquitin or ubiquitin-related molecules may also result in changes in subcellular distribution or modification of protein activity. An additional level of ubiquitin regulation, deubiquitination, is catalyzed by proteases called deubiquitinating enzymes, which fall into four distinct families. Ubiquitin C-terminal hydrolases, ubiquitin-specific processing proteases (USPs), 1 OTU-domain ubiquitin-aldehyde-binding proteins, and Jab1/Pad1/MPN-domain-containing metallo-enzymes. Among these four families, USPs represent the most widespread and represented deubiquitinating enzymes across evolution. USPs tend to release ubiquitin from a conjugated protein. They display similar catalytic domains containing conserved Cys and His boxes but divergent N-terminal and occasionally C-terminal extensions, which are thought to function in substrate recognition, subcellular localization, and protein-protein interactions.

Molecular Weight: 95786

NCBI Accession: [NP_001092006](#), [NP_003472](#)

UniProt: [P45974](#)

Application Details

Application Notes: WB: 1:1000. IHC-P: 1:50~100

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

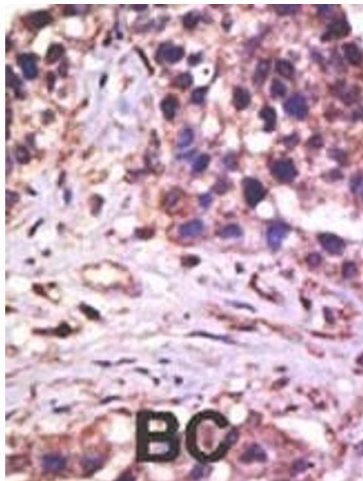
Storage: 4 °C,-20 °C

Expiry Date: 6 months

Publications

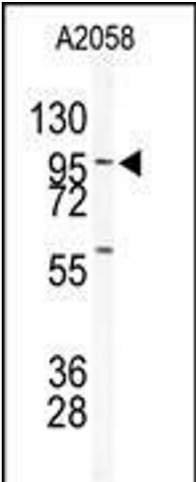
- Product cited in: Yoshioka, Ye, Okada, Taniguchi, Yoshida, Sugaya, Onose, Koshino, Takahashi, Yajima, Yajima, Abe: "Ubiquitin-specific peptidase 5, a target molecule of vialinin A, is a key molecule of TNF- α production in RBL-2H3 cells." in: **PLoS ONE**, Vol. 8, Issue 12, pp. e80931, (2013) ([PubMed](#)).
- Ouyang, Ali, Ravichandran, Dong, Qiu, MacKenzie, Dhe-Paganon, Arrowsmith, Zhai: "Protein aggregates are recruited to aggresome by histone deacetylase 6 via unanchored ubiquitin C termini." in: **The Journal of biological chemistry**, Vol. 287, Issue 4, pp. 2317-27, (2012) ([PubMed](#)).
- Falquet, Paquet, Frutiger, Hughes, Hoang-Van, Jaton: "cDNA cloning of a human 100 kDa de-ubiquitinating enzyme: the 100 kDa human de-ubiquitinase belongs to the ubiquitin C-terminal hydrolase family 2 (UCH2)." in: **FEBS letters**, Vol. 376, Issue 3, pp. 233-7, (1996) ([PubMed](#)).
- Falquet, Paquet, Frutiger, Hughes, Hoang-Van, Jaton: "A human de-ubiquitinating enzyme with both isopeptidase and peptidase activities in vitro." in: **FEBS letters**, Vol. 359, Issue 1, pp. 73-7, (1995) ([PubMed](#)).

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.



Western Blotting

Image 2. Western blot analysis of anti-USP5 Antibody (N-term) (ABIN1882150 and ABIN2839176) in cell line lysates (35 µg/lane). USP5(arrow) was detected using the purified Pab.