

USP2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP2131b

Product Information

Application WB, E Primary Accession 075604

Other Accession <u>Q5U349</u>, <u>Q88623</u>, <u>Q2KHV7</u>

Reactivity Human

Predicted Bovine, Mouse, Rat

HostRabbitClonalityPolyclonalIsotypeRabbit IgGAntigen Region380-410

Additional Information

Other Names Ubiquitin carboxyl-terminal hydrolase 2, 41 kDa ubiquitin-specific protease,

Deubiquitinating enzyme 2, Ubiquitin thioesterase 2, Ubiquitin-specific-processing protease 2, USP2, UBP41

Target/SpecificityThis USP2 antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 380-410 amino acids from the

C-terminal region of human USP2.

Dilution WB~~1:1000 E~~Use at an assay dependent concentration.

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

This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation

followed by dialysis against PBS.

Storage Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions USP2 Antibody (C-term) is for research use only and not for use in diagnostic

or therapeutic procedures.

Protein Information

Background

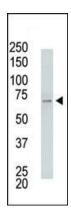
Modification of target proteins by ubiquitin participates in a wide array of biological functions. Proteins destined for degradation or processing via the 26 S proteasome are coupled to multiple copies of ubiquitin. However, attachment of ubiquitin or ubiquitin-related molecules may also result in changes 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.

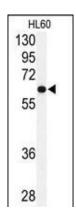
References

Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002).

Images



The anti-USP2 Antibody (C-term)(Cat.#AP2131b) is used in Western blot to detect USP2 in USP2-transfected HeLa cell lysates. Transfection data is kindly provided by Dr. B. Pierrat from the Novartis Institute for Biomedical Research (Basel, Switzerland).



Western blot analysis of anti-USP2 Antibody (C-term) (Cat.#AP2131b) in HL60 cell line lysates (35ug/lane).USP2(arrow) was detected using the purified Pab.

Citations

- <u>USP2a protein deubiquitinates and stabilizes the circadian protein CRY1 in response to inflammatory signals.</u>
- <u>Ubiquitination-deubiquitination balance dictates ligand-stimulated PTHR sorting.</u>

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.