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USP12 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2140b

Specification

USP12 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	O75317
Other Accession	P62069, P62068, A5WWB0, Q9D9M2, A4FUN7, A5D9H7, Q5M981, Q52KZ6, NP_872294, F1M625
Reactivity	**Human**
Predicted	**Xenopus, Bovine, Zebrafish, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Antigen Region	**315-345**

USP12 Antibody (C-term) - Additional Information

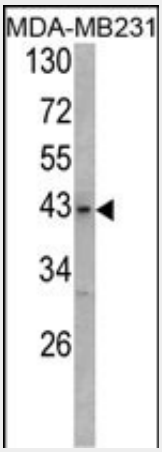
Gene ID 219333

Other Names
Ubiquitin carboxyl-terminal hydrolase 12, Deubiquitinating enzyme 12, Ubiquitin thioesterase 12, Ubiquitin-hydrolyzing enzyme 1, Ubiquitin-specific-processing protease 12, USP12, UBH1, USP12L1

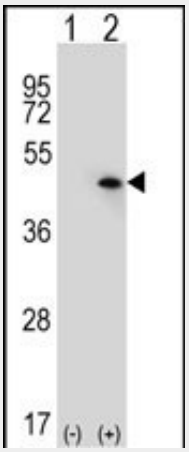
Target/Specificity
This USP12/USP46 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 315-345 amino acids from the C-terminal region of human USP12/USP46.

Dilution
WB~~1:1000

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.



Western blot analysis of USP12/USP46 Antibody (C-term) (Cat. #AP2140b) in MDA-MB231 cell line lysates (35ug/lane). USP12/USP46 (arrow) was detected using the purified Pab.



Western blot analysis of USP12 (arrow) using rabbit polyclonal USP12 Antibody (L315) (Cat. #AP2140b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the USP12 gene.

USP12 Antibody (C-term) - Background

Modification of target proteins by ubiquitin participates in a wide array of biological functions. Proteins destined for degradation or

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
USP12 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

USP12 Antibody (C-term) - Protein Information

Name USP12

Synonyms UBH1, USP12L1

Function
Deubiquitinating enzyme. Has almost no deubiquitinating activity by itself and requires the interaction with WDR20 and WDR48 to have a high activity (PubMed:19075014, PubMed:27373336). Not involved in deubiquitination of monoubiquitinated FANCD2 (PubMed:19075014). In complex with WDR48, acts as a potential tumor suppressor by positively regulating PHLPP1 stability (PubMed:24145035).

USP12 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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.

USP12 Antibody (C-term) - References

Hansen-Hagge, T.E., et al., Genomics 49(3):411-418 (1998).