Product Datasheet

USP15 Antibody

Catalog No: #35117

Package Size: #35117-1 50ul #35117-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

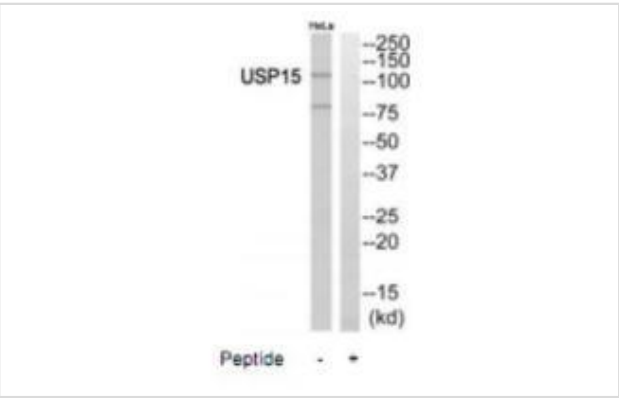
Description

Product Name	USP15 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total USP15 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from N-terminal of human USP15.
Target Name	USP15
Other Names	Ubiquitin carboxyl-terminal hydrolase 15; Ubiquitin thioesterase 15; Ubiquitin-specific-processing protease 15; Deubiquitinating enzyme 15; Unph-2
Accession No.	Swiss-Prot: Q9Y4E8NCBI Gene ID: 9958
Uniprot	Q9Y4E8
GeneID	9958;
SDS-PAGE MW	115kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

Western blotting: 1:500~1:3000

Images



Western blot analysis of extracts from HeLa cells, using USP15 antibody #35117.

Background

Hydrolase that removes conjugated ubiquitin from target proteins and regulates various pathways such as the TGF-beta receptor signaling and NF-kappa-B pathways. Acts as a key regulator of TGF-beta receptor signaling pathway, but the precise mechanism is still unclear: according to a report, acts by promoting deubiquitination of monoubiquitinated R-SMADs (SMAD1, SMAD2 and/or SMAD3), thereby alleviating inhibition of R-SMADs and promoting activation of TGF-beta target genes (). According to another reports, regulates the TGF-beta receptor signaling pathway by mediating deubiquitination and stabilization of TGFBR1, leading to an enhanced TGF-beta signal (). Able to mediate deubiquitination of monoubiquitinated substrates as well as 'Lys-48'-linked polyubiquitin chains, protecting them against proteasomal degradation. Acts as an associated component of COP9 signalosome complex (CSN) and regulates different pathways via this association: regulates NF-kappa-B by mediating deubiquitination of NFKBIA and deubiquitinates substrates bound to VCP. Protects APC and human papillomavirus type 16 protein E6 against degradation via the ubiquitin proteasome pathway.

Kim K.I., Submitted (NOV-1998) to the EMBL/GenBank/DDBJ databases.

Nagase T., DNA Res. 5:31-39(1998).

Nakajima D., DNA Res. 9:99-106(2002).

Note: This product is for in vitro research use only