

Ubiquitin Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1229A

Specification

Ubiquitin Antibody (C-term) - Product Information

Application	WB, IHC-P, IF, E
Primary Accession	P0CG48
Other Accession	P62975 , P62972 , P0CG69 , P62976 , P0CG71 , P0CG63 , Q63429 , P0CG68 , P0CG50 , P0CH28 , P0CG51 , P0CG49 , P0CG47 , P0CG62 , P0CG53 , P05759 , P62982 , P62983 , P62979 , P15357 , P79781 , P62992 , P62986 , P63053 , P62984 , P0C273 , P62987 , P18101 , P49632 , P63048 , P0CH09 , P0CH08
Reactivity Predicted	Human Yeast, Bovine, C.Elegans, Drosophila, Monkey, Mouse, Pig, Rat, Chicken, Hamster, Xenopus, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	77039
Antigen Region	36-66

Ubiquitin Antibody (C-term) - Additional Information

Gene ID 7316

Other Names

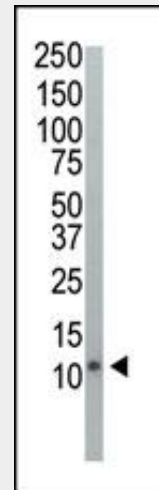
Polyubiquitin-C, Ubiquitin, UBC

Target/Specificity

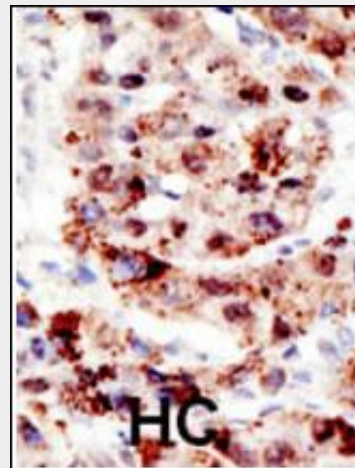
This Ubiquitin antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 36-66 amino acids from the C-terminal region of human Ubiquitin.

Dilution

WB~~1:1000
 IHC-P~~1:50~100
 IF~~1:10~50



Western blot analysis of anti-Ubiquitin Pab (Cat. #AP1229a) in HeLa cell lysate. Ubiquitin (Arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



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.



Characterization of FOXP2 Isoforms. FOXP2.10t

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 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

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

Ubiquitin Antibody (C-term) - Protein Information

Name UBC

Function

Ubiquitin: Exists either covalently attached to another protein, or free (unanchored). When covalently bound, it is conjugated to target proteins via an isopeptide bond either as a monomer (monoubiquitin), a polymer linked via different Lys residues of the ubiquitin (polyubiquitin chains) or a linear polymer linked via the initiator Met of the ubiquitin (linear polyubiquitin chains). Polyubiquitin chains, when attached to a target protein, have different functions depending on the Lys residue of the ubiquitin that is linked:

Lys-6-linked may be involved in DNA repair; Lys-11-linked is involved in ERAD (endoplasmic reticulum-associated degradation) and in cell-cycle regulation; Lys-29-linked is involved in lysosomal degradation; Lys-33-linked is involved in kinase modification; Lys-48-linked is involved in protein degradation via the proteasome; Lys-63-linked is involved in endocytosis, DNA-damage responses as well as in signaling processes leading to activation of the transcription factor NF-kappa-B. Linear polymer chains formed via attachment by the initiator Met lead to cell signaling. Ubiquitin is usually conjugated to Lys residues of target proteins, however, in rare cases, conjugation to Cys or Ser residues has been observed. When polyubiquitin is free (unanchored-polyubiquitin), it also has distinct roles, such as in activation of protein kinases, and in signaling.

Cellular Location

Ubiquitin: Cytoplasm. Nucleus

Ubiquitin Antibody (C-term) - Protocols

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

- [Western Blot](#)

was detected with an antibody to the N-terminal Xpress™ tag or FOXP2 (green) and counterstained with antibodies to the aggresome marker ubiquitin (red). Nuclei are marked by DAPI staining (blue). Ubiquitin co-localizes with FOXP2.10t aggregates suggesting that these cellular bodies represent aggresomes. (Hum. Mol. Genet. 2006 Nov 01;15(21):3154-3167)

Ubiquitin Antibody (C-term) - Background

This gene encodes ubiquitin, one of the most conserved proteins known. Ubiquitin is required for ATP-dependent, nonlysosomal intracellular protein degradation of abnormal proteins and normal proteins with a rapid turnover. Ubiquitin is covalently bound to proteins to be degraded, and presumably labels these proteins for degradation. Ubiquitin also binds to histone H2A in actively transcribed regions but does not cause histone H2A degradation, suggesting that ubiquitin is also involved in regulation of gene expression. This gene consists of three direct repeats of the ubiquitin coding sequence with no spacer sequence. Consequently, the protein is expressed as a polyubiquitin precursor with a final amino acid after the last repeat. Aberrant form of this protein has been noticed in patients with Alzheimer's and Down syndrome.

Ubiquitin Antibody (C-term) - References

Chan, Y.L., et al., Biochem. Biophys. Res. Commun. 215(2):682-690 (1995). Cook, W.J., et al., J. Mol. Biol. 236(2):601-609 (1994). Hubbard, M.J., et al., Biochim. Biophys. Acta 1200(2):191-196 (1994). Wajih, N., et al., Protein Seq. Data Anal. 5(1):31-32 (1992). Cook, W.J., et al., J. Biol. Chem. 267(23):16467-16471 (1992).

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Ubiquitin Antibody (C-term) - Citations

- [Myocardin is required for maintenance of vascular and visceral smooth muscle homeostasis during postnatal development.](#)
- [Functional genetic analysis of mutations implicated in a human speech and language disorder.](#)