

Product datasheet for **AP11230PU-N**

UBC (C-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Peptide ELISA: 1/1,000. Western blot: 1/100-1/500. Immunofluorescence. Immunohistochemistry on Paraffin Sections: 1/50-1/100.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 36~66 amino acids from the C-terminal region of Human Ubiquitin.
Specificity:	This antibody is specific to Ubiquitin (C-term).
Formulation:	PBS State: Purified State: Liquid purified Ig fraction Preservative: 0.09% (W/V) Sodium Azide
Concentration:	lot specific
Purification:	Protein G Chromatography, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	ubiquitin C
Database Link:	Entrez Gene 7316 Human P0CG48



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Background:

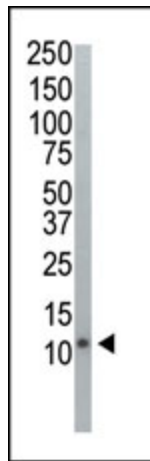
This gene encodes ubiquitin, one of the most conserved proteins known. Ubiquitin is required for ATP-dependent, nonlysosomal intracellular protein degradation of abnormal proteins and normal proteins with a rapid turnover. Ubiquitin is covalently bound to proteins to be degraded, and presumably labels 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.

Synonyms:

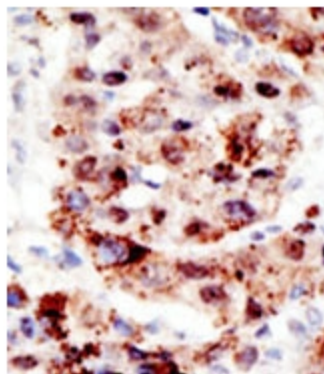
HMG20; polyubiquitin-C; UBA80; UBCEP1; UBCEP2

Note:

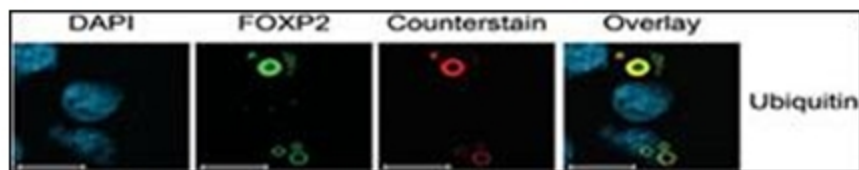
Predicted Molecular Weight: 8.565 kDa

Product images:

Western blot: Ubiquitin antibody staining of HeLa cell lysate. Ubiquitin (Arrow) was detected using purified Pab. Secondary HRP-anti-Rabbit was used for signal visualization with chemiluminescence.



Immunohistochemistry: Ubiquitin antibody staining of Formalin-Fixed, Paraffin-Embedded Human cancer tissue, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. Clinical relevance has not been evaluated.



Characterization of FOXP2 Isoforms. FOXP2.10t was detected with an antibody to the N-terminal Xpress™ tag or FOXP2 (green) and counter-stained 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)