

## Product datasheet for **AP08123PU-S**

### Ubiquitin (UBB) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC
Recommended Dilution:	Immunohistochemistry and Immunocytochemistry (Frozen or Formalin-Fixed Paraffin-Embedded (FFPE) tissue sections and cell smears): 1/50-1/100 using streptavidin~biotin system or polymer system. FFPE tissue sections require antigen retriever, boiling tissue for 15-20 minutes in 10 mM citrate, pH 6.0, followed by cooling at RT for 15-20 minutes. Immunofluorescence. Recommended Positive Control: Human brain from Alzheimer's disease.
Reactivity:	Bovine, Equine, Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Purified Human Ubiquitin.
Specificity:	This antibody stains senile plaques and neurons. Cellular Localization: Nuclear, Cytoplasmic, and cell membrane.
Formulation:	PBS, pH 7.4 containing 1% BSA as stabilizer and 0.05% Sodium Azide as preservative. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody 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 B
Database Link:	<a href="#">Entrez Gene 7314 Human P0CG47</a>



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**Background:**

Ubiquitin is a 76 amino acids 8.5 kDa, a highly conserved small regulatory protein that is ubiquitously expressed in eukaryotes and plays a central role in protein degradation. The Ubiquitin/proteasome pathways are main, non-lysosomal route for intracellular protein degradation. The protein to be degraded is conjugated to Ubiquitin; it is selectively degraded by 26S complex multicatalytic cytosolic and nuclear protease termed proteasome. This protein also plays important role in cellular processes e.g. Cell cycle progression, gene transcription, antigen processing and signal transduction. In Immunohistochemistry (IHC) this antibody can detect abnormal inclusion bodies, in neurofibrillary tangles in Alzheimer's disease, lewy bodies in Parkinson's disease, pick bodies in Pick's disease, inclusions in motor neuron disease, Mallory's Haylin in alcoholic liver disease and Rosenthal fibers in astrocytes.

**Synonyms:**

UBB, Polyubiquitin-B