

Product datasheet for **AM06722PU-N**

Ubiquitin (UBB) Mouse Monoclonal Antibody [Clone ID: 3C12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3C12
Applications:	ELISA, FC, WB
Recommended Dilution:	ELISA: 1/10000. Western Blot: 1/500 - 1/2000. Flow Cytometry: 1/200 - 1/400.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of Human UBB expressed in E. Coli.
Specificity:	Recognizes UBB
Formulation:	PBS State: Purified State: Liquid purified antibody Stabilizer: 0.5% protein stabilizer Preservative: 0.05% Sodium Azide
Concentration:	lot specific
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.
Predicted Protein Size:	26 kDa
Gene Name:	ubiquitin B
Database Link:	Entrez Gene 7314 Human P0CG47



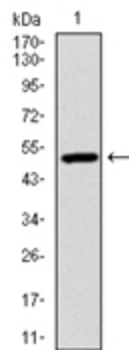
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Background:

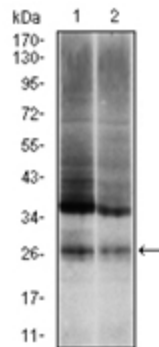
This gene encodes ubiquitin, one of the most conserved proteins known. Ubiquitin is required for ATP-dependent, nonlysosomal intracellular protein degradation of abnormal proteins and normal proteins with a rapid turnover. Ubiquitin is covalently bound to proteins to be degraded, and presumably labels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

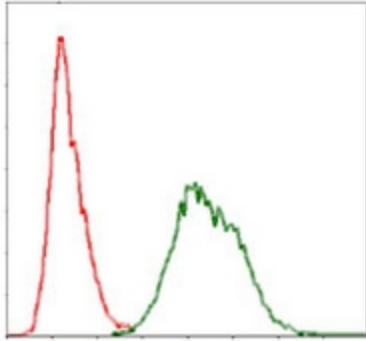
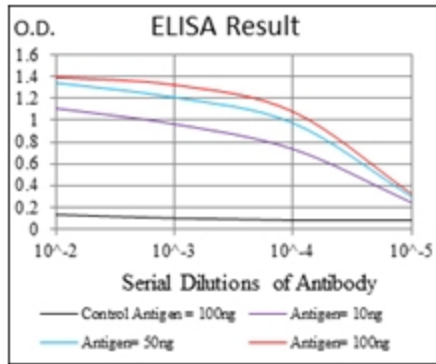
UBB, Polyubiquitin-B

Product images:


Western blot analysis using UBB antibody against human UBB (AA: 1-299) recombinant protein (Expected MW is 26 kDa).



Western blot analysis using UBB antibody against NIH/3T3 (1) and HeLa (2) cell lysate.



Flow Cytometric analysis of HeLa cells using UBB antibody (green) and negative control (red).