

Product datasheet for **AM10231SU-N**

Ubiquitin (UBB) Mouse Monoclonal Antibody [Clone ID: 10C2-2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	10C2-2
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA: 1/10-1/100. Western Blot: 1/10-1/100. Immunohistochemistry: 1/10-1/100.
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Ubiquitin
Specificity:	The antibody reacts specifically with 8.5kDa protein and ubiquitinated proteins.
Formulation:	State: Supernatant State: Lyophilized powder from Cell Culture Supernatant Preservative: None
Reconstitution Method:	Restore in distilled water.
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	ubiquitin B
Database Link:	POCG47



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Background:

Ubiquitin is a highly conserved protein of about 8.5 kDa molecular weight, which has an ATP dependent role in the targeting of proteins for proteolytic degradation. To perform this function, the protein to be degraded is first covalently attached to the C terminus of ubiquitin, and the ubiquitinated complex is then recognized by a complex of degradative enzymes. Interestingly, ubiquitin also becomes covalently bonded to many types of pathological inclusions, which appear to be resistant to normal degradation. Therefore, ubiquitin antibodies are very useful for studies of these inclusions. For example, the neurofibrillary tangles and paired helical filaments diagnostic of Alzheimer's disease, Lewy bodies seen in Parkinson's disease, and Pick bodies found in Pick's disease are all heavily ubiquitinated and can be readily visualized with ubiquitin antibodies.

Synonyms:

UBB, Polyubiquitin-B

Product images:

Detection of ubiquitylated protein (Lane 1) and free (Lane 2) on cell lysate from Rat prostate.