For Research Use Only

ubiquitin Monoclonal antibody

Catalog Number:60310-1-Ig 5 Publications

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Basic Information

Catalog Number:
60310-1-Ig

Concentration:
647 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG0260

GenBank Accession Number:
BC000379

GeneID (NCBI):
7314

UNIPROT ID:
P0CG47

Full Name:
ubiquitin B

Observed MW:
25 kDa

Purification Method:
Protein G purification

CloneNo.:
1D7B2

Applications

Tested Applications:
ELISA

Cited Applications:
WB

Species Specificity:
human

Cited Species:
human

Background Information

Ubiquitin B (UBB) is a member of ubiquitin family, one of the most conserved proteins known. Ubiquitin B is required for ATP-dependent, non-lysosomal intracellular protein degradation of abnormal proteins and normal proteins with a rapid turnover. Ubiquitin B 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.When polyubiquitin is free (unanchored-polyubiquitin), it also has distinct roles, such as in activation of protein kinases, and in signaling. 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. Interestingly ubiquitin also becomes covalently bonded to many types of pathological inclusions which appear to be resistant to normal degradation.

Notable Publications

Author	Pubmed ID	Journal	Application
Jens O. Watzlawik	33112198	Autophagy	WB
Kai Zhang	34715254	Cancer Lett	
G Bertolin	25591737	Cell Death Differ	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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Selected Validation Data