

For Research Use Only

ubiquitin Monoclonal antibody

Catalog Number: 60310-1-Ig **3 Publications**



Basic Information

Catalog Number: 60310-1-Ig	GenBank Accession Number: BC000379	Purification Method: Protein G purification
Size: 150ul , Concentration: 647 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 7314	CloneNo.: 1D7B2
Source: Mouse	Full Name: ubiquitin B	Recommended Dilutions: WB 1:500-1:2000 IHC 1:20-1:200 IF 1:10-1:100
Isotype: IgG1	Calculated MW: 26 kDa	
Immunogen Catalog Number: AG0260	Observed MW: 25 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls: WB : HeLa cells,
Cited Applications: WB	IHC : human ovary tumor tissue, human breast cancer tissue, human pancreas tissue
Species Specificity: human	IF : HeLa cells,
Cited Species: human	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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

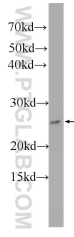
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

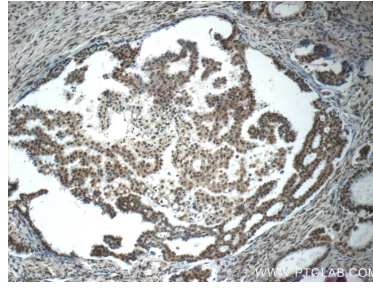
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

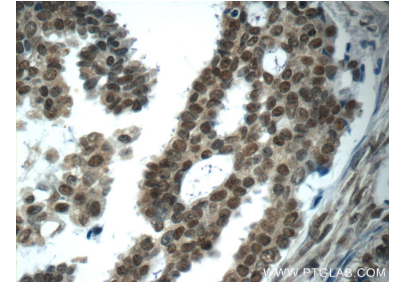
Selected Validation Data



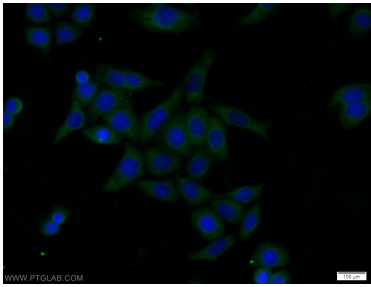
HeLa cells were subjected to SDS PAGE followed by western blot with 60310-1-Ig (ubiquitin Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 60310-1-Ig (ubiquitin Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 60310-1-Ig (ubiquitin Antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HeLa cells using 60310-1-Ig (ubiquitin antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG (H+L).