

For Research Use Only

# ubiquitin Polyclonal antibody

Catalog Number: 10201-2-AP **193 Publications**



## Basic Information

<b>Catalog Number:</b> 10201-2-AP	<b>GenBank Accession Number:</b> BC000379	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 550 µg/ml by Nanodrop and 173 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 7314	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> ubiquitin B	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 26 kDa	
<b>Immunogen Catalog Number:</b> AG0260		

## Applications

<b>Tested Applications:</b> FC, IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> ChIP, CoIP, IF, IHC, WB	<b>WB :</b> MDA-MB-453s cells, MCF-7 cells, mouse liver tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IHC :</b> human pancreas cancer tissue,
<b>Cited Species:</b> Arabidopsis, human, monkey, mouse, rat, Trypanosoma cruzi	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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
Huanru Wang	31575039	Int J Mol Sci	WB
Fabao Liu	26309161	Oncotarget	ip
Yu Sun	34562065	J Cell Mol Med	WB

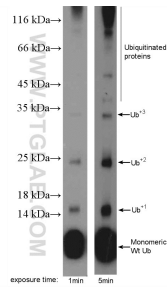
## Storage

**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

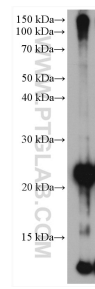
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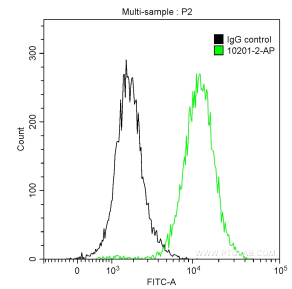
## Selected Validation Data



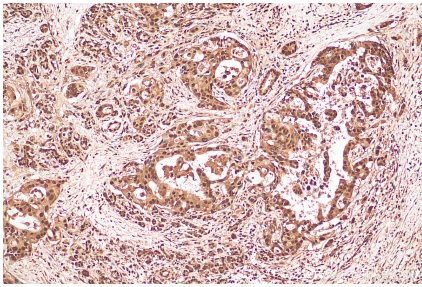
MDA-MB-453s cells were subjected to SDS PAGE followed by western blot with 10201-2-AP (ubiquitin Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



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1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.2 ug Anti-Human ubiquitin (10201-2-AP) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (green), and 0.2 ug Control Antibody. Cells were fixed with 90% MeOH.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 10201-2-AP (ubiquitin antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).