

For Research Use Only

ubiquitin Recombinant antibody

Catalog Number: 80992-1-RR

11 Publications



Basic Information

Catalog Number:

80992-1-RR

Size:

100ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0260

GenBank Accession Number:

BC000379

GeneID (NCBI):

7314

UNIPROT ID:

P0CG47

Full Name:

ubiquitin B

Purification Method:

Protein A purification

CloneNo.:

6H6

Recommended Dilutions:

WB 1:10000-1:100000

IHC 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IP, CoIP

Species Specificity:

human, mouse, rat, hamster, yeast, dog, spinach

Cited Species:

human, mouse

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

Positive Controls:

WB: NIH/3T3 cells, MG132 treated NIH/3T3 cells

IHC: human pancreas cancer tissue, human lung cancer tissue

IF/ICC: HeLa cells,

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 |
|---------------|-----------|-------------------|-------------|
| Lingling Chen | 39617210 | Biochem Pharmacol | WB |
| Qin Zhu | 39568023 | Cancer Cell Int | CoIP |
| Jing Wang | 39530604 | Cancer Biol Ther | IP |

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

*** 20ul sizes contain 0.1% BSA

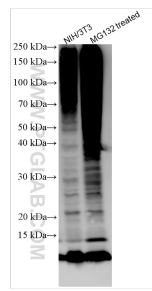
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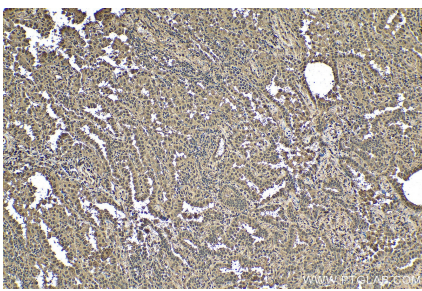
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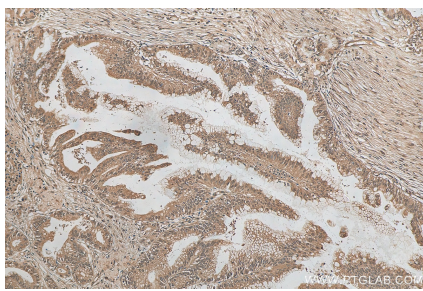
Selected Validation Data



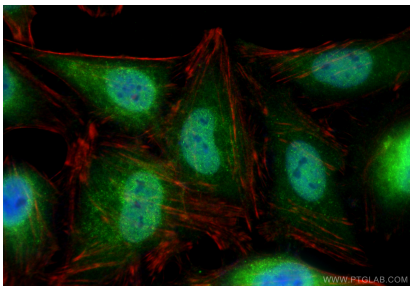
Various lysates were subjected to SDS PAGE followed by western blot with 80992-1-RR (ubiquitin antibody) at dilution of 1:60000 incubated at room temperature for 1.5 hours.



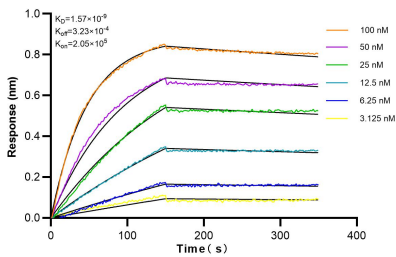
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 80992-1-RR (ubiquitin antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 80992-1-RR (ubiquitin antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using ubiquitin antibody (80992-1-RR, Clone: 6H6) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).



Biolayer interferometry (BLI) kinetic assays of 80992-1-RR against Human ubiquitin were performed. The affinity constant is 1.57 nM.