

Ubiquitin Rabbit mAb

Catalog No: #48860



Package Size: #48860-1 50ul #48860-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

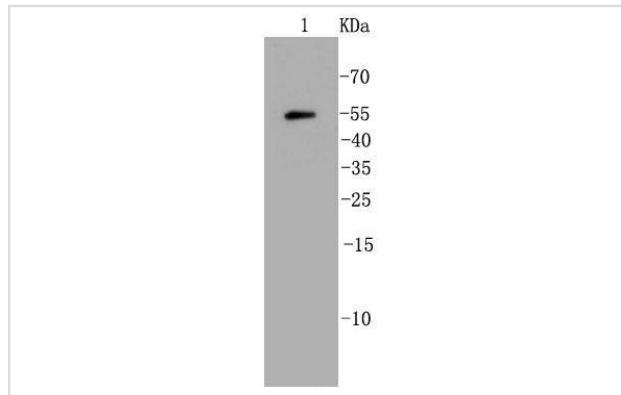
Description

Product Name	Ubiquitin Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SR04-20
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, FC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	FLJ25987 antibody MGC8385 antibody Polyubiquitin B antibody RPS 27A antibody RPS27A antibody UBA 52 antibody UBA 80 antibody UBA52 antibody UBA80 antibody UBB antibody UBB_HUMAN antibody UBC antibody UBCEP 1 antibody UBCEP 2 antibody UBCEP1 antibody UBCEP2 antibody Ubiquitin antibody Ubiquitin B antibody
Accession No.	Swiss-Prot#:P0CG47
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

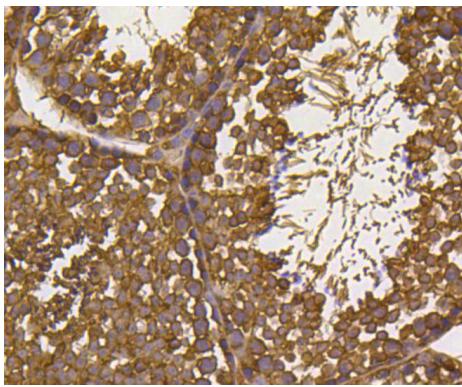
Application Details

WB: 1:1,000-1:2,000 IHC: 1:200-1:500 ICC: 1:50-1:200FC: 1:50-1:100

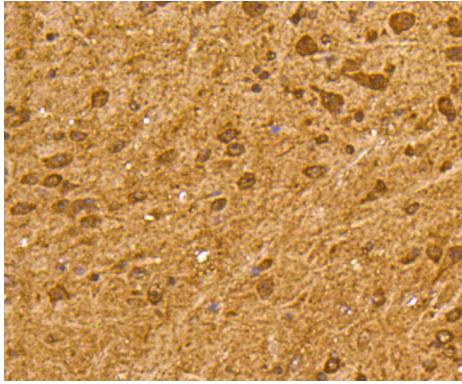
Images



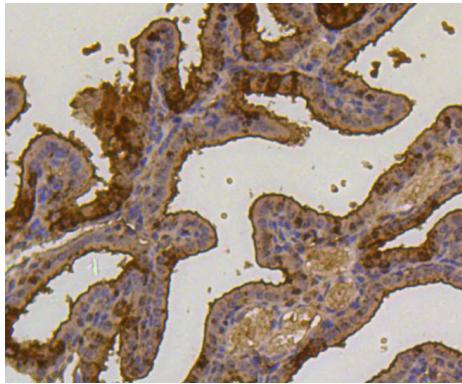
Western blot analysis of Ubiquitin on mouse heart lysates using anti-Ubiquitin antibody at 1/1,000 dilution.



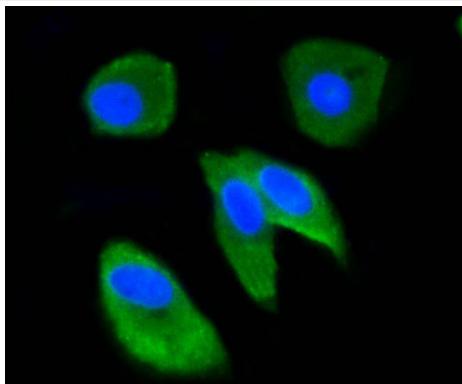
Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-Ubiquitin antibody. Counter stained with hematoxylin.



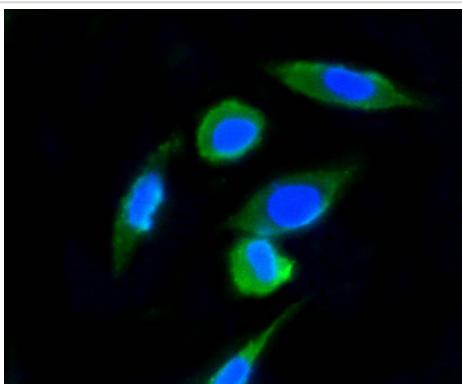
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-Ubiquitin antibody. Counter stained with hematoxylin.



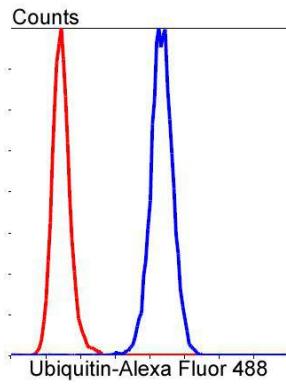
Immunohistochemical analysis of paraffin-embedded mouse placenta tissue using anti-Ubiquitin antibody. Counter stained with hematoxylin.



ICC staining Ubiquitin in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Ubiquitin in SH-SY-5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of HepG2 cells with Ubiquitin antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

Ubiquitin is a conserved polypeptide unit that plays an important role in the ubiquitin-proteasome pathway. Ubiquitin exists either covalently attached to another protein, or free (unanchored). When covalently bound, it is conjugated to target proteins via an isopeptide bond either as a monomer (monoubiquitin), a polymer linked via different Lys residues of the ubiquitin (polyubiquitin chains) or a linear polymer linked via the initiator Met of the ubiquitin (linear polyubiquitin chains). Polyubiquitin chains, when attached to a target protein, have different functions depending on the Lys residue of the ubiquitin that is linked: Lys-6-linked may be involved in DNA repair; Lys-11-linked is involved in ERAD (endoplasmic reticulum-associated degradation) and in cell-cycle regulation; Lys-29-linked is involved in lysosomal degradation; Lys-33-linked is involved in kinase modification; Lys-48-linked is involved in protein degradation via the proteasome; Lys-63-linked is involved in endocytosis, DNA-damage responses as well as in signaling processes leading to activation of the transcription factor NF- κ B. This antibody reacts with ubiquitin, a polypeptide w/ Mr. of approx. 8.5kD. It reacts with physiologically occurring conjugates of ubiquitin and intracellular proteins. Specifically recognizes ubiquitinated cytoplasmic inclusion bodies.

References

1. Zhang P et al. Endometrial cancer-associated mutants of SPOP are defective in regulating estrogen receptor- α protein turnover. *Cell Death Dis* 6:e1687 (2015).
2. Ye X et al. Characterization of PHB1 and its role in mitochondrial maturation and yolk platelet degradation during development of *Artemia* embryos. *PLoS One* 9:e109152 (2014).

Published Papers

el at., Mycn ameliorates cardiac hypertrophy-induced heart failure in mice by mediating the USP2/JUP/Akt/ β -catenin cascade. In *BMC Cardiovasc Disord* on 2024 Jan 31 by Weinian Gao, Na Guo, et al.. PMID:38297207, , (2024)
[PMID:38297207](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.