Datasheet for ABIN3020654

anti-Ubiquitin B antibody

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Overview

Quantity:	100 µL
Target:	Ubiquitin B (UBB)
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Ubiquitin B antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	A synthetic peptide of human Ubiquitin
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	Ubiquitin B (UBB)
Alternative Name:	UBB (UBB Products)
Background:	This gene encodes ubiquitin, one of the most conserved proteins known. Ubiquitin has a major role in targeting cellular proteins for degradation by the 26S proteosome. It is also involved in

Target Details

	the maintenance of chromatin structure, the regulation of gene expression, and the stress response. Ubiquitin is synthesized as a precursor protein consisting of either polyubiquitin chains or a single ubiquitin moiety fused to an unrelated protein. 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. An aberrant form of this protein has been detected in patients with Alzheimer's disease and Down syndrome. Pseudogenes of this gene are located on chromosomes 1, 2, 13, and 17. Alternative splicing results in multiple transcript variants.,HEL-S-50,Ubiquitin,UBB,Epigenetics & Nuclear Signaling,Cell Biology & Developmental Biology,Apoptosis,Mitochondrial Control of Apoptosis,Ubiquitin,Ubiquitin-Proteasome Signaling Pathway,Neuroscience,Neurodegenerative Diseases,Amyloid Plaque and Neurofibrillary Tangle Formation in Alzheimer's Disease,UBB
Molecular Weight:	25 kDa
Gene ID:	7314
UniProt:	P0CG47
Pathways:	Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Mitotic G1-G1/S Phases, DNA Replication, Toll-Like Receptors Cascades, Synthesis of DNA, Autophagy, EGFR Downregulation, Ubiquitin Proteasome Pathway

Application Details

Application Notes:	WB,1:1000 - 1:2000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C

Handling

Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

Product cited in:

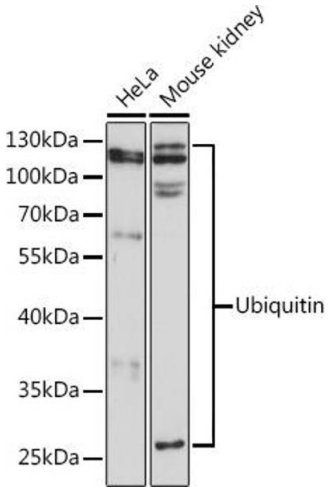
Yang, Liu, Yao, Jiang, Wang, Yang, Sun, Miao, Wang, Huang, Wang, Tang, Rayner, Britt, McVoy, Luo, Zhao: "WDR5 Facilitates Human Cytomegalovirus Replication by Promoting Capsid Nuclear Egress." in: **Journal of virology**, Vol. 92, Issue 9, (2018) (PubMed).

Zhang, Wang, Zhong, Luo, Shang, Liu, Chen, Fang, Xiao: "Ubiquitin-specific Protease 15 Negatively Regulates Virus-induced Type I Interferon Signaling via Catalytically-dependent and -independent Mechanisms." in: **Scientific reports**, Vol. 5, pp. 11220, (2016) (PubMed).

Cheng, Wang, Jiang, Wang, Xin, Liu, Jia, Song, Zhu: "A novel ubiquitin-protein ligase E3 functions as a modulator of immune response against lipopolysaccharide in Pacific oyster, Crassostrea gigas." in: **Developmental and comparative immunology**, Vol. 60, pp. 180-90, (2016) (PubMed).

Li, Liu, Yang, Fu, Zhao, Shen, Miao, Rayner, Chavanas, Zhu, Britt, Tang, McVoy, Luo: "Human Cytomegalovirus Infection Dysregulates the Localization and Stability of NICD1 and Jag1 in Neural Progenitor Cells." in: **Journal of virology**, Vol. 89, Issue 13, pp. 6792-804, (2015) (PubMed).

Zhong, Wang, Fang, Zhang, Luo, Shang, Ouyang, Ouyang, Chen, Xiao: "Ubiquitin-specific proteases 25 negatively regulates virus-induced type I interferon signaling." in: **PLoS ONE**, Vol. 8 , Issue 11, pp. e80976, (2013) (PubMed).



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using Ubiquitin pAb at 1:3000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Enhanced Kit (RM00021).Exposure time: 90s.