Datasheet for ABIN388040

anti-Ubiquitin antibody (AA 36-66)

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Overview

Quantity:	400 µL
Target:	Ubiquitin (Ub)
Binding Specificity:	AA 36-66
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Ubiquitin antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This Ubiquitin antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 36-66 amino acids of human Ubiquitin.
Clone:	RB2702
Isotype:	Ig Fraction
Predicted Reactivity:	Y, B, E, D, Pr, M, Pig, Rat, Sh, C, Hs, Ha, X, Rb
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	Ubiquitin (Ub)

Target Details

Alternative Name:	Ubiquitin (Ub Products)
Background:	This gene encodes ubiquitin, one of the most conserved proteins known. Ubiquitin is required for ATP-dependent, nonlysosomal intracellular protein degradation of abnormal proteins and normal proteins with a rapid turnover. Ubiquitin 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. 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.
Molecular Weight:	77039
Gene ID:	7314
UniProt:	P0CG48
Pathways:	Mitotic G1-G1/S Phases, Ubiquitin Proteasome Pathway

Application Details

Application Notes:	IF: 1:10~50. WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

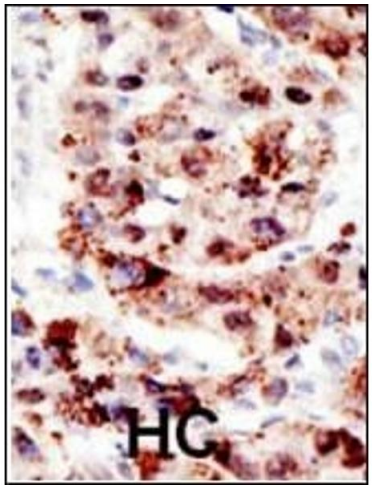
Publications

Product cited in:

Huang, Wang, Wright, Yang, Zhou, Li, Yang, Small, Parmacek: "Myocardin is required for maintenance of vascular and visceral smooth muscle homeostasis during postnatal development." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 112, Issue 14, pp. 4447-52, (2015) (PubMed).

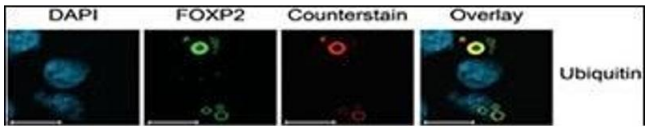
Vernes, Nicod, Elahi, Coventry, Kenny, Coupe, Bird, Davies, Fisher: "Functional genetic analysis of mutations implicated in a human speech and language disorder." in: **Human molecular genetics**, Vol. 15, Issue 21, pp. 3154-67, (2006) (PubMed).

Images



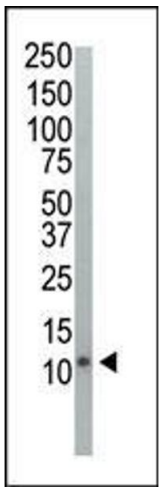
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.



Immunofluorescence

Image 2. Characterization of FOXP2 Isoforms. FOXP2.10t was detected with an antibody to the N-terminal XpressTM tag or FOXP2 (green) and counterstained with antibodies to the aggresome marker ubiquitin (red). Nuclei are marked by DI staining (blue). Ubiquitin co-localizes with FOXP2.10t aggregates suggesting that these cellular bodies represent aggresomes. (Hum. Mol. Genet. 2006 Nov 01,15(21):3154-3167)



Western Blotting

Image 3. Western blot analysis of anti-Ubiquitin Pab (ABIN388040 and ABIN2845549) in HeLa cell lysate. Ubiquitin (Arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.