

For Research Use Only

Ubiquilin 1 Polyclonal antibody

Catalog Number: 23516-1-AP **6 Publications**



Basic Information

Catalog Number: 23516-1-AP	GenBank Accession Number: BC010066	Purification Method: Antigen Affinity purified
Size: 150ul , Concentration: 500 µg/ml by Nanodrop and 260 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 29979	Recommended Dilutions: WB 1:200-1:1000 IHC 1:50-1:500 IF 1:10-1:100
Source: Rabbit	Full Name: ubiquilin 1	
Isotype: IgG	Calculated MW: 589 aa, 63 kDa	
Immunogen Catalog Number: AG20252	Observed MW: 63-71 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls: WB : rat brain tissue, IHC : human gliomas tissue, IF : PC-3 cells,
Cited Applications: WB	
Species Specificity: human, rat	
Cited Species: human, pig	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

UBQLN1, also known as DSK2 or Ubiquilin 1, is an ubiquitin-like protein that contains a N-terminal ubiquitin-like domain and a C-terminal ubiquitin-associated domain. They physically associate with both proteasomes and ubiquitin ligases, and thus are thought to functionally link the ubiquitination machinery to the proteasome to affect in vivo protein degradation. Ubiquilin has also been shown to modulate accumulation of presenilin proteins, and is found in lesions associated with Alzheimer's and Parkinson's disease. Two transcript variants encoding different isoforms have been found for this gene. Higher levels of ubiquilin-1 in the brain decreased malformation of the APP molecule which plays a key role in triggering Alzheimer's disease. Conversely, lower levels of ubiquilin-1 in the brain were associated with increased malformation of APP (PMID: 21852239). This antibody detects 70kD band of UBQLN1.

Notable Publications

Author	Pubmed ID	Journal	Application
Nitchakarn Kaokhum	36182100	Mol Cell Proteomics	WB
Zongfu Pan	33359451	Cancer Lett	WB
Ping Zhang	38150993	Redox Biol	WB

Storage

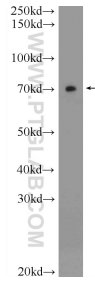
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

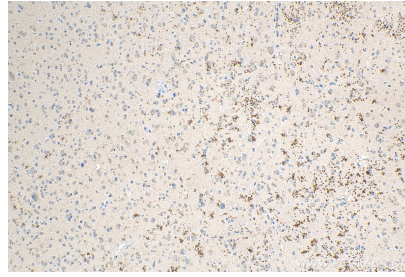
For technical support and original validation data for this product please contact:
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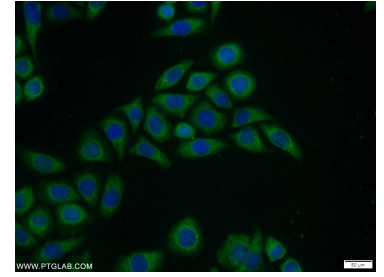
Selected Validation Data



rat brain tissue were subjected to SDS PAGE followed by western blot with 23516-1-AP (Ubiquilin 1 Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 23516-1-AP (Ubiquilin 1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of PC-3 cells using 23516-1-AP (Ubiquilin 1 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).