

For Research Use Only

# Ubiquilin 1 Polyclonal antibody

Catalog Number: 23516-1-AP **7 Publications**



## Basic Information

<b>Catalog Number:</b> 23516-1-AP	<b>GenBank Accession Number:</b> BC010066	<b>Purification Method:</b> Antigen Affinity purified
<b>Size:</b> 500 µg/ml	<b>GeneID (NCBI):</b> 29979	<b>Recommended Dilutions:</b> WB 1:200-1:1000 IHC 1:50-1:500 IF/ICC 1:10-1:100
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9UMX0	
<b>Isotype:</b> IgG	<b>Full Name:</b> ubiquilin 1	
<b>Immunogen Catalog Number:</b> AG20252	<b>Calculated MW:</b> 589 aa, 63 kDa <b>Observed MW:</b> 63-71 kDa	

## Applications

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

## 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
Dongdong Wu	39159700	Biochim Biophys Acta Mol Basis Dis	IP

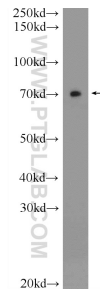
## Storage

**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

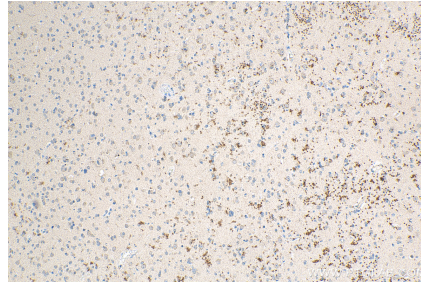
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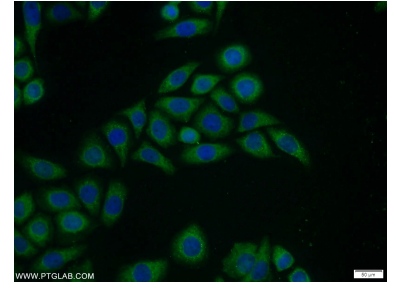
## Selected Validation Data



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 Goat Anti-Rabbit IgG(H+L).