

For Research Use Only

# ATX3,ATXN3 Monoclonal antibody

Catalog Number: 67057-1-Ig **2 Publications**



## Basic Information

Catalog Number: 67057-1-Ig	GenBank Accession Number: BC033711	Purification Method: Protein A purification
Size: 2100 µg/ml	GeneID (NCBI): 4287	CloneNo.: 1F7E10
Source: Mouse	UNIPROT ID: P54252	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF/ICC 1:400-1:1600
Isotype: IgG2a	Full Name: ataxin 3	
Immunogen Catalog Number: AG6627	Calculated MW: 370 aa, 43 kDa Observed MW: 41-45 kDa	

## Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Cited Applications: WB, IHC	WB : MCF-7 cells, HeLa cells, Jurkat cells, HEK-293 cells, pig brain tissue, mouse brain tissue
Species Specificity: Human, mouse, pig	IHC : human pancreas cancer tissue,
Cited Species: human, mouse	IF/ICC : A549 cells,
<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

ATXN3, which has deubiquitinase activity and act as a component of the ubiquitin proteasome system, plays a role in transcriptional regulation and neuroprotection. ATXN3 interacts with RAD23, HHR23A and HHR23B, involves in the pathology of MJD. ATXN3 is a mixed-linkage, chain-editing enzyme and that the UIM region of ATXN3 regulates its substrate specificity. Contains an N-terminal deubiquitinating domain, called the Josephin domain, followed by 2 ubiquitin-interacting motifs (UIMs) and a polyQ tract near the C terminus. ATXN3 can be phosphorylated in a protein casein kinase-2-dependent manner, thus the MW would be larger than the predicted one.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yang Cheng	38815863	J Biol Chem	WB
Shengnan Wang	38038129	J Clin Invest	IHC

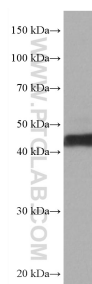
## Storage

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

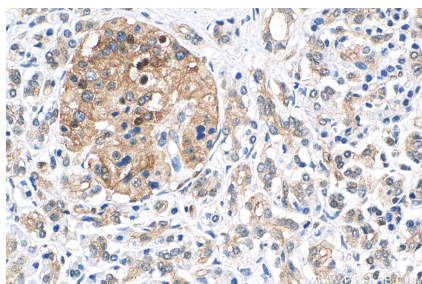
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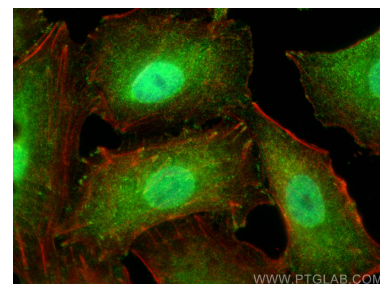
## Selected Validation Data



MCF-7 cells were subjected to SDS PAGE followed by western blot with 67057-1-Ig (ATX3,ATXN3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 67057-1-Ig (ATX3,ATXN3 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed A549 cells using ATX3,ATXN3 antibody (67057-1-Ig, Clone: 1F7E10 ) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).