

For Research Use Only

# YTHDC1 Monoclonal antibody

Catalog Number: 67911-1-Ig **1 Publications**



## Basic Information

Catalog Number: 67911-1-Ig	GenBank Accession Number: BC053863	Purification Method: Protein G purification
Concentration: 1000 ug/ml	GeneID (NCBI): 91746	CloneNo.: 1F5G11
Source: Mouse	UNIPROT ID: Q96MU7	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:2000-1:8000
Isotype: IgG1	Full Name: YTH domain containing 1	
Immunogen Catalog Number: AG6289	Calculated MW: 85 kDa Observed MW: ~100 kDa	

## Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: WB	WB : LNCaP cells, MDA-MB-231 cells, HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells
Species Specificity: human, mouse	IHC : human breast cancer tissue, human cervical cancer tissue, mouse testis tissue
Cited Species: human	
<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

YTHDC1, containing 1 YTH domain, is one of the m6A-binding proteins that can recognize and bind to the m6A methylation site and plays a specific role in gene expression. YTHDC1 is constitutively enriched in the nucleus. It regulates mRNA splicing by bridging the interactions between the trans- and cis-regulatory elements to bind targeted mRNAs. YTHDC1 mediates the export of m6A modified mRNA from the nucleus to the cytoplasm by interacting with SRSF3, which is an essential factor driving the tumorigenic process in various types of cancers including breast cancer, colon cancer, ovarian cancer, osteosarcoma, and glioblastoma (32368386).

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoxin Xu	39092767	Mol Carcinog	WB

## Storage

Storage:  
Store at -20°C. Stable for one year after shipment.  
Storage Buffer:  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

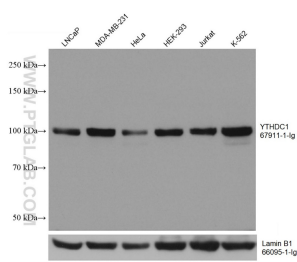
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

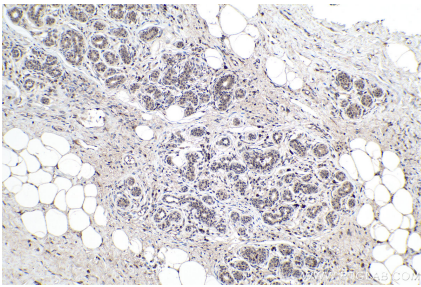
W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

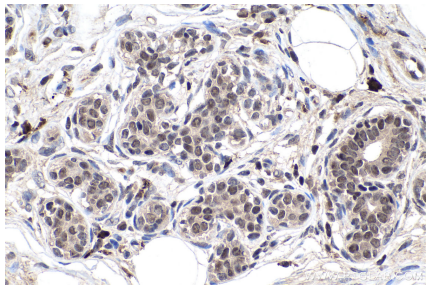
Selected Validation Data



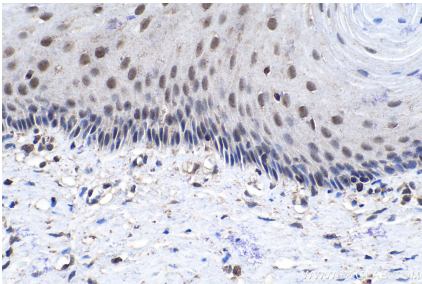
Various lysates were subjected to SDS PAGE followed by western blot with 67911-1-Ig (YTHDC1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with Lamin B1 Monoclonal antibody (66095-1-Ig) as loading control.



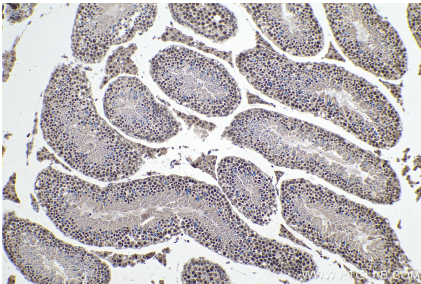
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67911-1-Ig (YTHDC1 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



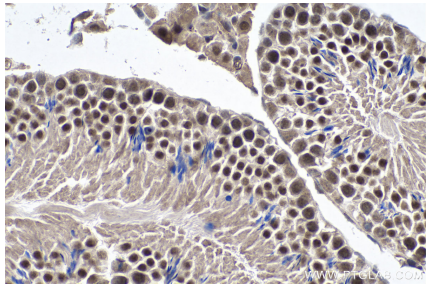
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67911-1-Ig (YTHDC1 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 67911-1-Ig (YTHDC1 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 67911-1-Ig (YTHDC1 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 67911-1-Ig (YTHDC1 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).