For Research Use Only

YTHDC1 Monoclonal antibody

Catalog Number:67911-1-Ig 1 Publications

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Basic Information

Catalog Number:
67911-1-Ig

Size:
1000 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG6289

GenBank Accession Number:
BC053863

GeneID (NCBI):
91746

UNIPROT ID:
Q96MU7

Full Name:
YTH domain containing 1

Calculated MW:
85 kDa

Observed MW:
~100 kDa

Purification Method:
Protein G purification

CloneNo.:
1F5G11

Recommended Dilutions:
WB 1:2000-1:10000
IHC 1:2000-1:8000

Applications

Tested Applications:
IHC, WB, ELISA

Cited Applications:
WB

Species Specificity:
Human, mouse

Cited Species:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : LNCaP cells, MDA-MB-231 cells, HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells

IHC : human breast cancer tissue, human cervical cancer tissue, mouse testis tissue

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

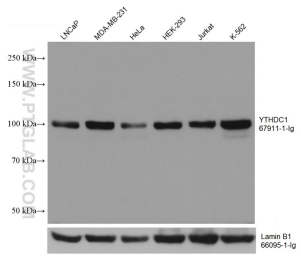
Author	Pubmed ID	Journal	Application
Xiaoxin Xu	39092767	Mol Carcinog	WB

Storage

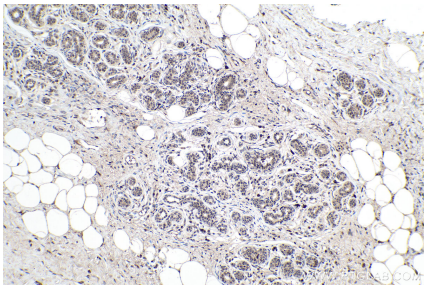
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

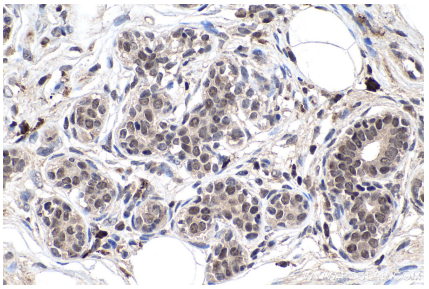
Selected Validation Data



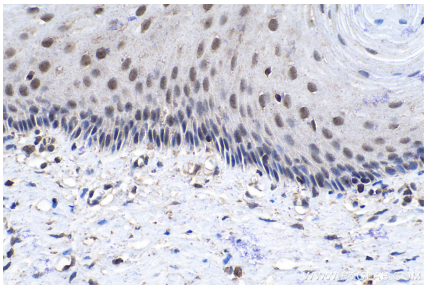
Various lysates were subjected to SDS PAGE followed by western blot with 67911-1-Ig (YTHDC1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with Lamin B1 Monoclonal antibody (66095-1-Ig) as loading control.



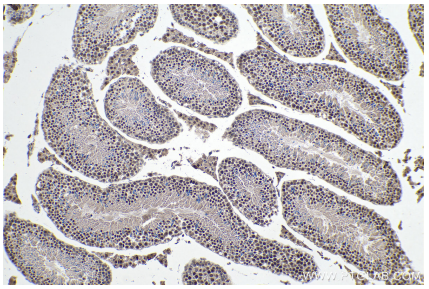
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67911-1-Ig (YTHDC1 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



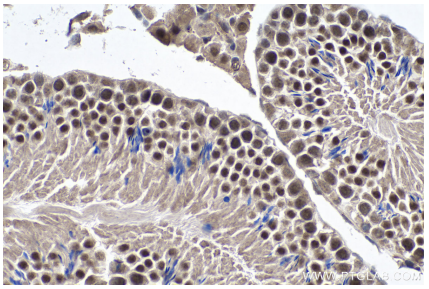
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67911-1-Ig (YTHDC1 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).