For Research Use Only

STT3A Monoclonal antibody

Catalog Number:66581-1-Ig Featured Product 4 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
66581-1-Ig

Size:
150ul , Concentration: 1500 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG27072

GenBank Accession Number:
BC020965

GeneID (NCBI):
3703

UNIPROT ID:
P46977

Full Name:
STT3, subunit of the oligosaccharyltransferase complex, homolog A (S. cerevisiae)

Calculated MW:
705 aa, 81 kDa

Observed MW:
65 kDa

Purification Method:
Protein G purification

CloneNo.:
1E2B12

Recommended Dilutions:
WB 1:1000-1:6000
IHC 1:50-1:500

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

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 : THP-1 cells, K-562 cells, HL-60 cells, HEK-293 cells, RAW 264.7 cells

IHC : human breast cancer tissue,

Background Information

STT3A, also named as Integral membrane protein 1, belongs to the STT3 family. STT3A is expressed at high levels in placenta, liver, muscle and pancreas, and at very low levels in brain, lung and kidney. STT3A is a catalytic subunit of the N-oligosaccharyl transferase (OST) complex which catalyzes the transfer of a high mannose oligosaccharide from a lipid-linked oligosaccharide donor to an asparagine residue within an Asn-X-Ser/Thr consensus motif in nascent polypeptide chains. STT3A is present in the majority of OST complexes and mediates cotranslational N-glycosylation of most sites on target proteins, while STT3B-containing complexes are required for efficient post-translational glycosylation and mediate glycosylation of sites that have been skipped by STT3A. There are two isoforms of STT3A with molecular weight of 81 and 70 kDa. 66581-1-Ig antibody detects a protein around 65-70 kDa in SDS-PAGE which is similar to papers published. (PMID: 32005703, 25135935)

Notable Publications

Author	Pubmed ID	Journal	Application
Jiahan Cheng	35832442	Transl Lung Cancer Res	IHC
Wenchang Lv	35444644	Front Immunol	IHC,IF
Nan Xiong	39716927	Adv Sci (Weinh)	WB,IF

Storage

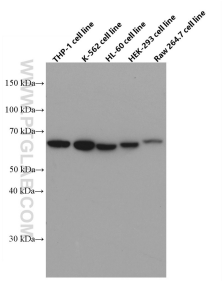
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

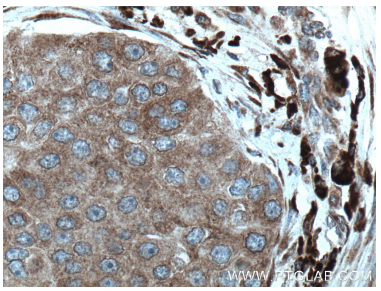
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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 66581-1-Ig (STT3A antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66581-1-Ig (STT3A antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).