### For Research Use Only

# STT3A Polyclonal antibody

Catalog Number: 12034-1-AP 23 Publications



**Basic Information** 

Catalog Number: GenBank Accession Number: 12034-1-AP BC020965

Concentration: GeneID (NCBI): 3703

Source: UNIPROT ID: Rabbit P46977

Isotype: Full Name:

STT3, subunit of the

Immunogen Catalog Number: oligosaccharyltransferase complex,

AG2698 homolog A (S. cerevisiae)

Calculated MW: 705 aa, 81 kDa Observed MW: 65-100 kDa

**Applications** 

Tested Applications: WB, IHC, ELISA Cited Applications: WB, IHC, IF, IP, CoIP Species Specificity:

human
Cited Species:
human, mouse, rat

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: HepG2 cells, K-562 cells

 $\hbox{IHC:} human\, stomach\, tissue, human\, stomach\, cancer$ 

**Purification Method:** 

WB 1:500-1:1000 IHC 1:50-1:500

Antigen affinity purification

Recommended Dilutions:

tissue

# **Background Information**

STT3A, also named as Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit STT3A, is a 705 amino acid prtein, which 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. N-glycosylation occurs cotranslationally and the complex associates with the Sec61 complex at the channel-forming translocon complex that mediates protein translocation across the endoplasmic reticulum (ER). SST3A seems to be involved in complex substrate specificity. 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

#### **Notable Publications**

Author	Pubmed ID	Journal	Application
Xinxin Song	32938586	Cancer Discov	WB,IP,IF
Shih-Han Wang	36381324	Am J Cancer Res	
Cecilia Lopez-Sambrooks	27694802	Nat Chem Biol	WB

Storage

Storage

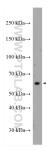
Store at -20°C. Stable for one year after shipment.

Storage Buffe

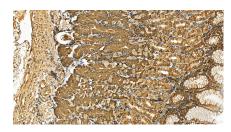
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

## **Selected Validation Data**



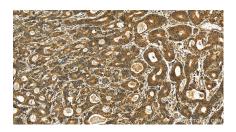
HepG2 cells were subjected to SDS PAGE followed by western blot with 12034-1-AP (STT3A antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human stomach tissue slide using 12034-1-AP (STT3A antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human stomach tissue slide using 12034-1-AP (STT3A antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human stomach cancer tissue slide using 12034-1-AP (STT3A antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).