

For Research Use Only

# STT3A Recombinant antibody

Catalog Number: 83077-4-RR



## Basic Information

<b>Catalog Number:</b> 83077-4-RR	<b>GenBank Accession Number:</b> BC020965	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 3703	<b>CloneNo.:</b> 230426B10
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P46977	
<b>Isotype:</b> IgG	<b>Full Name:</b> STT3, subunit of the oligosaccharyltransferase complex, homolog A ( <i>S. cerevisiae</i> )	
<b>Immunogen Catalog Number:</b> AG31994	<b>Calculated MW:</b> 705 aa, 81 kDa	

## Applications

**Tested Applications:**  
ELISA, FC (Intra)

**Species Specificity:**  
Human

## Background Information

STT3A, also named as Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit STT3A, is a 705 amino acid protein, 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). STT3A 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.

## 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:

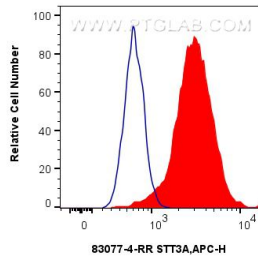
T: 4006900926

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

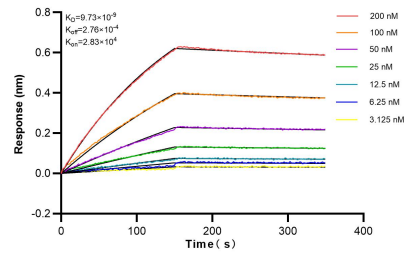
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## Selected Validation Data



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.25  $\mu\text{g}$  Stt3a Recombinant Antibody (83077-4-RR, Clone:230426B10) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25  $\mu\text{g}$  Rabbit IgG control Rabbit PolyAb(blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83077-4-RR against Human STT3A were performed. The affinity constant is 9.73 nM.