

GALNTL4 Rabbit pAb

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Catalog # AP56182

Product Information

Application	WB
Primary Accession	Q6P9A2
Reactivity	Mouse
Predicted	Rat, Dog, Human, Rabbit, Chicken, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	69561
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GALNTL4
Epitope Specificity	1-100/607
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Golgi Apparatus membrane; Single-pass type II membrane protein
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase (GalNAc-T) family of enzymes are substrate-specific proteins that catalyze the transfer of GalNAc (N-acetylgalactosaminyl) to serine and threonine residues onto various proteins, thereby initiating mucin-type O-linked glycosylation in Golgi apparatus. GalNAc-TL4, also known as LGALS14 or polypeptide GalNAc transferase-like protein 4, is a 607 amino acid single-pass type II membrane protein belonging to the glycosyltransferase 2 family and GalNAc-T subfamily. Localizing to Golgi apparatus, GalNAc-TL4 utilizes manganese and calcium as cofactors and may assist with the transfer of N-acetyl-D-galactosamine to a serine or threonine residue on protein receptors. GalNAc-TL4 likely catalyzes the initial reaction in O-linked oligosaccharide biosynthesis and contains a ricin B-type lectin domain, which binds to GalNAc and contributes to glycopeptide specificity, and two conserved domains located in the glycosyltransferase region. The N-terminal domain, also known as domain A or GT1 motif, may be involved in manganese coordination and substrate binding while the C-terminal domain, also known as domain B or Gal/GalNAc-T motif, is likely involved in catalytic reaction and UDP-Gal binding. GalNAc-TL4 exists as two alternatively spliced isoforms.

Additional Information

Gene ID	374378
Other Names	Polypeptide N-acetylgalactosaminyltransferase 18, 2.4.1.41, Polypeptide

GalNAc transferase 18, GalNAc-T18, Polypeptide GalNAc transferase-like protein 4, GalNAc-T-like protein 4, pp-GaNTase-like protein 4, Polypeptide N-acetylgalactosaminyltransferase-like protein 4, Protein-UDP acetylgalactosaminyltransferase-like protein 4, UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase-like protein 4, GALNT18, GALNTL4

Dilution

WB=1:500-2000

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name

GALNT18

Synonyms

GALNTL4

Function

Catalyzes the initial reaction in O-linked oligosaccharide biosynthesis, the transfer of an N-acetyl-D-galactosamine (GalNAc) residue from UDP-GalNAc to a serine or threonine residue on the protein receptor.

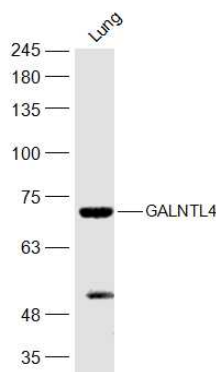
Cellular Location

Golgi apparatus membrane; Single-pass type II membrane protein

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Images

**Sample:**

Lung (Mouse) Lysate at 40 ug

Primary: Anti-GALNTL4 (AP56182) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 70 kD

Observed band size: 70 kD

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