bs-16227R **[Primary Antibody]**

GALNTL4 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 374378 **SWISS:** Q6P9A2

Target: GALNTL4

Immunogen: KLH conjugated synthetic peptide derived from human GALNTL4: 1-100/607.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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.

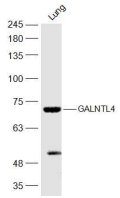
Applications: **WB** (1:500-2000)

Reactivity: Mouse (predicted: Human, Rat, Rabbit, Sheep, Cow, Chicken, Dog, Horse)

Predicted MW.: 70 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Sample: Lung (Mouse) Lysate at 40 ug Primary: Anti-GALNTL4 (bs-16227R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 70 kD Observed band size: 70 kD