

bs-16221R**[Primary Antibody]****GALNT5 Rabbit pAb**

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— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) ICC/IF (1:100-500) ELISA (1:5000-10000) Reactivity: (predicted: Human, Mouse) Predicted MW.: 106 kDa Subcellular Location: Cell membrane
Clonality: Polyclonal		
GeneID: 11227	SWISS: Q7Z7M9	
Target: GALNT5		
Immunogen: KLH conjugated synthetic peptide derived from human GALNT5: 501-600/940.		
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-acetylgalactosamine) to serine and threonine residues onto various proteins, thereby initiating mucin-type O-linked glycosylation in the Golgi apparatus. GalNAc-T5 (Polypeptide N-acetylgalactosaminyltransferase 5), also known as UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 5, is a 940 amino acid protein that displays enzymatic activity toward EA2 peptide substrate with weaker activity toward Muc2 or Muc 1b substrates. Its N-terminal domain is involved in substrate binding and manganese coordination, while the C-terminal domain is involved in UDP-Gal binding and catalytic reaction. EXT2 directly interacts with GalNAc-T5, suggesting that these proteins may corroborate in glycosaminoglycan synthesis.		