Data Sheet (Cat.No.TMAB-00737)

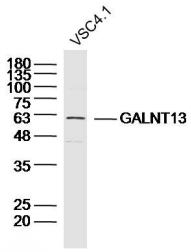
Anti-GALNT13 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Rat (predicted:Human,Mouse,Dog,Pig,Cow,Rabbit,Sheep)
Molecular Weight:	Theoretical: 64 kDa. Actual: 62 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Sample: VSC4.1 Cell (Rat) Lysate at 40 µg Primary: Anti-GALNT13 (TMAB-00737) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 64 kDa Observed band size: 62 kDa



Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human GALNT13/GalNAc-T13
Antigen Species:	Human
Gene ID:	114805
Uniprot ID:	Q8IUC8
Synonyms:	Polypeptide GalNAc transferase 13;GalNAc-T13;GalNAc transferase 13;GLT13;pp GaNTase 13;UDP N acetyl alpha D galactosamine:polypeptide;Protein UDP acetylgalactosaminyltransferase 13;UDP GalNAc:polypeptide N acetylgalactosaminyltransferase 13;N acetylgalactosaminyltransferase 13

Research 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-T13 (Polypeptide N-acetylgalactosaminyltransferase 13), also known as UDP-GalNAc: polypeptide N-acetylgalactosaminyltransferase 13, is a 556 amino acid protein that displays much stronger enzymatic activity than GalNAc-1 towards GalNAc transfer to mucin peptides such as Muc5a and Muc7. The 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. With specific expression in the central nervous system, GalNAc-T13 may be responsible for the synthesis of Tn antigen in neuronal cells, which is a universal carcinoma marker on malignant cells.

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