Datasheet for ABIN7601573

anti-ST6GALNAC4 antibody (AA 39-302)

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Overview

Quantity:	100 µg
Target:	ST6GALNAC4
Binding Specificity:	AA 39-302
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ST6GALNAC4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-ST6GALNAC4 Antibody Picoband®
Immunogen:	E.coli-derived human ST6GALNAC4 recombinant protein (Position: D39-T302).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-ST6GALNAC4 Antibody Picoband® (ABIN7601573). Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	ST6GALNAC4
Alternative Name:	ST6GALNAC4 (ST6GALNAC4 Products)
Background:	Synonyms: Solute carrier family 2, facilitated glucose transporter member 6, Glucose transporter type 6, GLUT-6, Glucose transporter type 9, GLUT-9, SLC2A6, GLUT9 Tissue Specificity: Highly expressed in brain, spleen and peripheral blood leukocytes. Background: ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 4, also known as sialyltransferase 3C (SIAT3-C) or sialyltransferase 7D (SIAT7-D) is a sialyltransferase enzyme that in humans is encoded by the ST6GALNAC4 gene. The protein encoded by this gene is a type II membrane protein that catalyzes the transfer of sialic acid from CMP-sialic acid to galactose-containing substrates. The encoded protein prefers glycoproteins rather than glycolipids as substrates and shows restricted substrate specificity, utilizing only the trisaccharide sequence Neu5Ac-alpha-2,3-Gal-beta-1,3-GalNAc. In addition, it is involved in the synthesis of ganglioside GD1A from GM1B. The encoded protein is normally found in the Golgi apparatus but can be proteolytically processed to a soluble form. This protein is a member of glycosyltransferase family 29. Transcript variants encoding different isoforms have been found for this gene. Readthrough transcripts exist for this gene and the downstream ST6GALNAC6 gene.
Molecular Weight:	36 kDa
Gene ID:	27090
UniProt:	Q9H4F1

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat ELISA, 0.1-0.5 µg/mL, - 1. Gilley, J., Fried, M. Extensive gene order differences within regions of conserved synteny between the Fugu and human genomes: implications for chromosomal evolution and the cloning of disease genes. Hum. Molec. Genet. 8: 1313-1320, 1999. 2. Harduin-Lepers, A., Stokes, D. C., Steelant, W. F. A., Samyn-Petit, B., Krzewinski-Recchi, M.-A., Vallejo-Ruiz, V., Zanetta, J.-P., Auge, C., Delannoy, P. Cloning, expression and gene organization of a human Neu5Ac-alpha-2-3Gal-beta-1-3GalNAc alpha-2,6-sialyltransferase: hST6GalNAc IV. Biochem. J. 352: 37-48, 2000. 3. Kim, S.-W., Kang, N.-Y., Lee, S.-H., Kim, K.-W., Kim, K.-S., Lee, J.-H., Kim, C.-H., Lee, Y.-C. Genomic structure and promoter analysis of human NeuAc alpha-2,3Gal beta-1,3GalNAc alpha-2,6-sialyltransferase (hST6GalNAc IV) gene. Gene 305: 113-120, 2003.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.