Datasheet for ABIN6137403

anti-B4GALT1 antibody (AA 50-215)

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1 Image

Overview

Quantity:	100 µL
Target:	B4GALT1
Binding Specificity:	AA 50-215
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This B4GALT1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 50-215 of human B4GALT1 (NP_001488.2).
Sequence:	LPQLVGVSTP LQGGSNSAAA IGQSSGELRT GGARPPPPLG ASSQPRPGGD SSPVVDSGPG PASNLTSVPV PHTTALSLPA CPEESPLLVG PMLIEFNMPV DLELVAKQNP NVKMGGRYAP RDCVSPHKVA IIIPFRNRQE HLKYWLYYLH PVLQRQQLDY GIYVIN
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	B4GALT1
Alternative Name:	B4GALT1 (B4GALT1 Products)
Background:	This gene is one of seven beta-1,4-galactosyltransferase (beta4GalT) genes. Each beta4GalT has a distinct function in the biosynthesis of different glycoconjugates and saccharide structures. As type II membrane proteins, they have an N-terminal hydrophobic signal sequence that directs the protein to the Golgi apparatus and which then remains uncleaved to function as a transmembrane anchor. This gene is unique among the beta4GalT genes because it encodes an enzyme that participates both in glycoconjugate and lactose biosynthesis. For the first activity, the enzyme adds galactose to N-acetylglucosamine residues that are either monosaccharides or the nonreducing ends of glycoprotein carbohydrate chains. The second activity is restricted to lactating mammary tissues where the enzyme forms a heterodimer with alpha-lactalbumin to catalyze UDP-galactose + D-glucose <=> UDP + lactose. The two enzymatic forms result from alternate transcription initiation sites and post-translational processing. Two transcripts, which differ only at the 5' end, with approximate lengths of 4.1 kb and 3.9 kb encode the same protein. The longer transcript encodes the type II membrane-bound, trans-Golgi resident protein involved in glycoconjugate biosynthesis. The shorter transcript encodes a protein which is cleaved to form the soluble lactose synthase.,B4GALT1,B4GAL-T1,CDG2D,GGTB2,GT1,GTB,beta4Gal-T1,beta-1,Signal Transduction,Cell Biology & Developmental Biology,Apoptosis,Endocrine & Metabolism,Lipid Metabolism,Cardiovascular,Angiogenesis,B4GALT1
Molecular Weight:	42 kDa/43 kDa
Gene ID:	2683
UniProt:	P15291
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:100
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

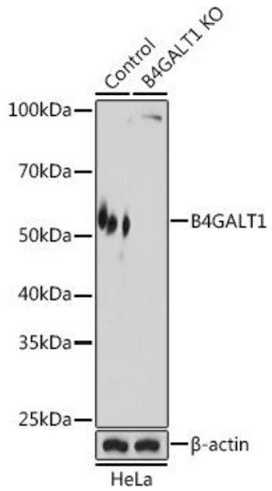
Handling

Format:	Liquid

Handling

Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



Western Blotting

Image 1. Western blot analysis of extracts from normal (control) and B4G knockout (KO) HeLa cells, using B4G antibody (ABIN6133203, ABIN6137403, ABIN6137404 and ABIN6224642) at 1:3000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 1s.