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B4GALT1 Rabbit pAb

货号: **AYP11881**

产品信息

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| 反应 | Human |
| 宿主 | Rabbit |
| 克隆性 | Polyclonal |
| 预测反应 | WB: Arabidopsis thaliana , Homo sapiens IP: Arabidopsis thaliana IHC: Mus musculus |
| 应用 | WB |
| 推荐浓度 | WB: 1:500 - 1:2000 |
| 理论分子量 | 42kDa/43kDa |
| 实测分子量 | 55kDa |
| 形式 | Liquid |
| 保存条件 | Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.01% thiomersal,50% glycerol,pH7.3. |
| 偶联物 | Unconjugated |
| 阳性对照 | LO2,HeLa,22Rv1 |
| 细胞定位 | Cell membrane,Cell projection,Cell surface,Golgi apparatus,Golgi stack membrane,Secreted,Single-pass type II membrane protein,filopodium |
| 纯化 | Affinity purification |

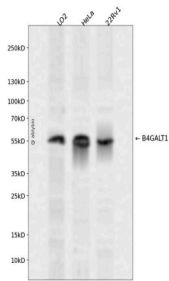
抗原信息

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| 抗原信息 | Recombinant fusion protein containing a sequence corresponding to amino acids 45-210 of human B4GALT1 (NP_001488.2). |
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靶点信息

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| 研究背景 | 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. |
| 基因ID | 2683 |
| 基因名 | B4GALT1 |
| Swiss | P15291 (https://www.uniprot.org/uniprotkb/P15291/entry) |
| 别名 | B4GALT1,B4GAL-T1,CDG2D,GGTB2,GT1,GTB,beta4Gal-T1,beta-1,B4GALT1 Rabbit pAb,Beta-N-acetylglucosaminyl-glycolipid beta-1,4-galactosyltransferase,Beta-N-acetylglucosaminylglycopeptide beta-1,Lactose synthase A protein,N-acetyllactosamine synthase,Nal synthase,Neolactotriaosylceramide beta-1 |

产品验证



Western blot analysis of B4GALT1 expressed in LO2, HeLa, 22Rv1 using B4GALT1 Rabbit pAb at 1:1000. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:5000. Lysates/proteins: 30ug per lane. Blocking buffer: 5% non-fat dry milk in TBST. Detection: ECL Enhanced Kit. Exposure time: 120s.

实验步骤

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