

产品名称:  $\beta$ -1,3-Gal-T4 Rabbit Polyclonal Antibody  
产品货号: APRab20340



## 产品概述 (Summary)

|                        |                                                |
|------------------------|------------------------------------------------|
| 产品名称 (Production Name) | $\beta$ -1,3-Gal-T4 Rabbit Polyclonal Antibody |
| 描述 (Description)       | Rabbit polyclonal Antibody                     |
| 宿主 (Host)              | Rabbit                                         |
| 应用 (Application)       | WB,ELISA                                       |
| 种属反应性 (Reactivity)     | Human,Rat,Mouse                                |

## 产品性能 (Performance)

|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                                      |
| 修饰 (Modification)   | Unmodified                                                                                        |
| 同种型 (Isotype)       | IgG                                                                                               |
| 克隆 (Clonality)      | Polyclonal                                                                                        |
| 形式 (Form)           | Liquid                                                                                            |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.          |
| 储存溶液 (Buffer)       | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| 纯化方式 (Purification) | Affinity purification                                                                             |

## 免疫原信息 (Immunogen)

|                        |                                                                                                                                                                                                                                      |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 基因名 (Gene Name)        | B3GALT4                                                                                                                                                                                                                              |
| 别名 (Alternative Names) | B3GALT4; GALT4; Beta-1; 3-galactosyltransferase 4; Beta-1,3-GalTase 4; Beta3Gal-T4; Beta3GalT4; GalT4; b3Gal-T4; Gal-T2; Ganglioside galactosyltransferase; UDP-galactose:beta-N-acetyl-galactosamine-beta-1,3-galactosyltransferase |
| 基因 ID (Gene ID)        | 8705.0                                                                                                                                                                                                                               |
| 蛋白 ID (SwissProt ID)   | O96024.The antiserum was produced against synthesized peptide derived from human B3GALT4. AA range:181-230                                                                                                                           |

## 产品应用 (Application)

|                      |                                      |
|----------------------|--------------------------------------|
| 稀释比 (Dilution Ratio) | WB 1:500-1:2000,ELISA 1:5000-1:20000 |
|----------------------|--------------------------------------|

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蛋白分子量 (Molecular Weight) 42kDa

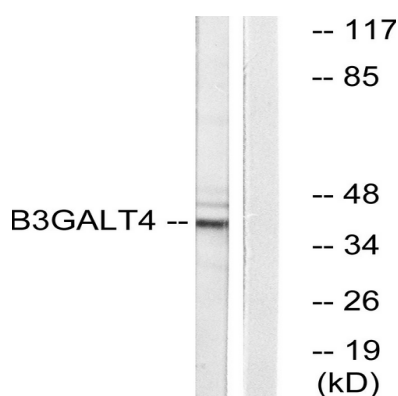
## 研究背景 (Background)

This gene is a member of the beta-1,3-galactosyltransferase (beta3GalT) gene family. This family encodes type II membrane-bound glycoproteins with diverse enzymatic functions using different donor substrates (UDP-galactose and UDP-N-acetylglucosamine) and different acceptor sugars (N-acetylglucosamine, galactose, N-acetylgalactosamine). The beta3GalT genes are distantly related to the Drosophila Brainiac gene and have the protein coding sequence contained in a single exon. The beta3GalT proteins also contain conserved sequences not found in the beta4GalT or alpha3GalT proteins. The carbohydrate chains synthesized by these enzymes are designated as type 1, whereas beta4GalT enzymes synthesize type 2 carbohydrate chains. The ratio of type 1:type 2 chains changes during embryogenesis. By sequence similarity, the beta3GalT genes fall into at least two groups: beta3GalT4 and 4 other beta3catalytic activity:UDP-galactose + N-acetyl-D-galactosaminyl-(N-acetylneuraminyl)-D-galactosyl-(1->4)-beta-D-glucosyl-N-acylsphingosine = UDP + D-galactosyl-(1->3)-beta-N-acetyl-D-galactosaminyl-(N-acetylneuraminyl)-D-galactosyl-D-glucosyl-N-acylsphingosine.,function:Involved in GM1/GD1B/GA1 ganglioside biosynthesis.,online information:Beta-1,3-galactosyltransferase 4,online information:GlycoGene database,pathway:Protein modification; protein glycosylation.,similarity:Belongs to the glycosyltransferase 31 family.,tissue specificity:Highly expressed in heart, skeletal muscle and pancreas and, to a lesser extent, in brain, placenta, kidney, liver and lung.,

## 研究领域 (Research Area)

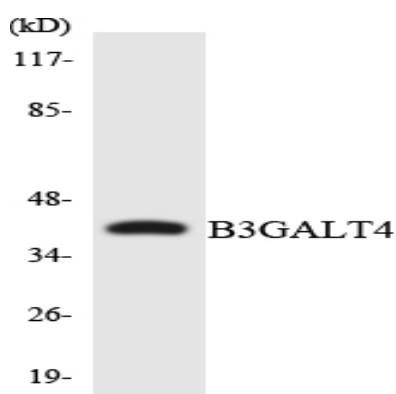
Glycosphingolipid biosynthesis;

## 图片 (Image Data)

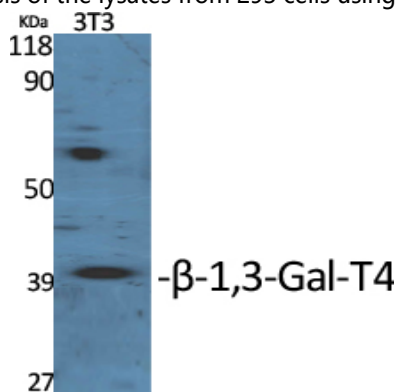


Western blot analysis of lysates from Jurkat cells, using B3GALT4 Antibody. The lane on the right is blocked with the synthesized peptide.

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Western blot analysis of the lysates from 293 cells using B3GALT4 antibody.



Western Blot analysis of various cells using  $\beta$ -1,3-Gal-T4 Polyclonal Antibody. Secondary antibody was diluted at 1:20000

### 注意事项 (Note)

For research use only .