Anti-B4GALT1 antibody ab121326

Overview

Product name: Anti-B4GALT1 antibody
Description: Rabbit polyclonal to B4GALT1
Host species: Rabbit
Tested applications: Suitable for: WB, ICC/IF, IHC-P
Species reactivity: Reacts with: Human
Immunogen: antigen, corresponding to amino acids 50-163 of Human B4GALT1 (P15291).
Positive control: Human prostate tissue; U-251 MG cell lysate; A-431 cells.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer: pH: 7.20
Preservative: 0.02% Sodium azide
Constituents: 59% PBS, 40% Glycerol
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab121326 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>WB</td>
<td></td>
<td>1/250 - 1/500.</td>
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<tr>
<td>ICC/IF</td>
<td>★★★★★</td>
<td>Use a concentration of 1 - 4 µg/ml. Fixation/Permeabilization: PFA/Triton X-100</td>
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<td>IHC-P</td>
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<td>1/50 - 1/200. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.</td>
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<td><strong>Target</strong></td>
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<td><strong>Function</strong></td>
<td>The Golgi complex form catalyzes the production of lactose in the lactating mammary gland and could also be responsible for the synthesis of complex-type N-linked oligosaccharides in many glycoproteins as well as the carbohydrate moieties of glycolipids. The cell surface form functions as a recognition molecule during a variety of cell to cell and cell to matrix interactions, as those occurring during development and egg fertilization, by binding to specific oligosaccharide ligands on opposing cells or in the extracellular matrix.</td>
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<td><strong>Tissue specificity</strong></td>
<td>Ubiquitously expressed, but at very low levels in fetal and adult brain.</td>
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<td><strong>Pathway</strong></td>
<td>Protein modification; protein glycosylation.</td>
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<td><strong>Involvement in disease</strong></td>
<td>Defects in B4GALT1 are the cause of congenital disorder of glycosylation type 2D (CDG2D) [MIM:607091]. CDGs are a family of severe inherited diseases caused by a defect in protein N-glycosylation. They are characterized by under-glycosylated serum proteins. These multisystem disorders present with a wide variety of clinical features, such as disorders of the nervous system development, psychomotor retardation, dysmorphic features, hypotonia, coagulation disorders, and immunodeficiency. The broad spectrum of features reflects the critical role of N-glycoproteins during embryonic development, differentiation, and maintenance of cell functions.</td>
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<td><strong>Sequence similarities</strong></td>
<td>Belongs to the glycosyltransferase 7 family.</td>
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<td><strong>Post-translational modifications</strong></td>
<td>The soluble form derives from the membrane forms by proteolytic processing.</td>
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</table>

**Images**

**All lanes**: Anti-B4GALT1 antibody (ab121326) at 1/250 dilution

**Lane 1**: RT-4 cell lysate  
**Lane 2**: U-251 MG cell lysate  
**Lane 3**: Human Plasma  
**Lane 4**: Human Liver lysate  
**Lane 5**: Human Tonsil lysate

Developed using the ECL technique.
ab121326, at 1/125, staining B4GALT1 in paraffin embedded Human prostate tissue by Immunohistochemistry.

ab121326, at 4 µg/ml, staining B4GALT1 (green) in A-431 cells by Immunofluorescence.

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