Anti-B4GALT1 antibody ab121326

Overview

**Product name**  Anti-B4GALT1 antibody

**Description**  Rabbit polyclonal to B4GALT1

**Host species**  Rabbit

**Tested applications**  Suitable for: ICC, WB, IHC-P

**Species reactivity**  Reacts with: Human

**Immunogen**  antigen, corresponding to amino acids 50-163 of Human B4GALT1 (P15291).

**Positive control**  IHC-P: Human placenta, prostate, and testis tissue sections; WB: HeLa cell lysate; ICC: A431 cells.

**General notes**  The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

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 (glycerin, glycerine)

**Purity**  Immunogen affinity purified

**Clonality**  Polyclonal

**Isotype**  IgG

Applications

**The Abpromise guarantee**  Our Abpromise guarantee covers the use of ab121326 in the following tested applications.
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.

Tissue specificity
Ubiquitously expressed, but at very low levels in fetal and adult brain.

Pathway
Protein modification; protein glycosylation.

Involvement in disease
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.

Sequence similarities
Belongs to the glycosyltransferase 7 family.

Post-translational modifications
The soluble form derives from the membrane forms by proteolytic processing.

Cellular localization

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>
</tr>
</thead>
<tbody>
<tr>
<td>ICC</td>
<td></td>
<td>Use a concentration of 0.25 - 2 µg/ml.</td>
</tr>
<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 0.04 - 0.4 µg/ml.</td>
</tr>
<tr>
<td>IHC-P</td>
<td></td>
<td>1/500 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.</td>
</tr>
</tbody>
</table>
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human placenta tissue labelling B4GALT1 with ab121326 at 1/500 dilution. Heat mediated antigen retrieval performed with citrate buffer pH 6 before commencing with IHC staining protocol.

Immunocytochemistry analysis of A431 (human epidermoid carcinoma) cells labelling B4GALT1 with ab121326 at 2 µg/mL.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human prostate tissue labelling B4GALT1 with ab121326 at 1/500 dilution. Heat mediated antigen retrieval performed with citrate buffer pH 6 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human testis tissue labelling B4GALT1 with ab121326 at 1/500 dilution. Heat mediated antigen retrieval performed with citrate buffer pH 6 before commencing with IHC staining protocol.
**All lanes**: Anti-B4GALT1 antibody (ab121326) at 2 µg

**Lane 1**: HeLa (human epithelial cell line from cervix adenocarcinoma) cell lysate

**Lane 2**: HEK-293 (human epithelial cell line from embryonic kidney) cell lysate

**Loading control**: Anti-HSP90B1

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human skeletal muscle tissue labelling B4GALT1 with ab121326 at 1/500 dilution. Heat mediated antigen retrieval performed with citrate buffer pH 6 before commencing with IHC staining protocol.

**Please note**: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

**Our Abpromise to you: Quality guaranteed and expert technical support**

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
• Response to your inquiry within 24 hours
• We provide support in Chinese, English, French, German, Japanese and Spanish
• Extensive multi-media technical resources to help you
• We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

• Guarantee only valid for products bought direct from Abcam or one of our authorized distributors