



Product datasheet

Anti-GALNT12 antibody ab201196

2 Images

Overview

Product name	Anti-GALNT12 antibody
Description	Rabbit polyclonal to GALNT12
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Human
Immunogen	<p>Recombinant fragment corresponding to Human GALNT12 aa 63-266. (BC013945). Sequence:</p> <p>SRNKALANSVRAAEVWMDEFKELYHRNPRARLEPFGD VTERKQLRDKLQ CKDFKWFLETVYPELHVPEDRPGFFGMLQNKGLTDYCFD YNPPDENQIVG HQVILYLCHGMGQNQFFEYTSQKEIRYNTHQPEGCIAVEAG MDTLIMHLC EETAPENQKFILQEDGSLFHEQSKKCVQAARKESSDSFV PLLRDCTNSDH QKWF</p> <p>Database link: Q8IXK2-2</p> <p style="text-align: right;">  Run BLAST with  Run BLAST with </p>
Positive control	A549 cell lysate; Human fetal stomach tissue.
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own</p>

labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as customer reviews and Q&As.

Properties

Form	Lyophilized:Reconstitute in 200ul sterile H2O.
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 98% PBS, 1% BSA
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab201196** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/100 - 1/500.
WB		1/200 - 1/1000. Predicted molecular weight: 31, 67 kDa.

Target

Function	Catalyzes the initial reaction in O-linked oligosaccharide biosynthesis, the transfer of an N-acetyl-D-galactosamine residue to a serine or threonine residue on the protein receptor. Has activity toward non-glycosylated peptides such as Muc5AC, Muc1a and EA2, and no detectable activity with Muc2 and Muc7. Displays enzymatic activity toward the Gal-NAc-Muc5AC glycopeptide, but no detectable activity to mono-GalNAc-glycosylated Muc1a, Muc2, Muc7 and EA2. May play an important role in the initial step of mucin-type oligosaccharide biosynthesis in digestive organs.
Tissue specificity	Widely expressed at different levels of expression. Highly expressed in digestive organs such as small intestine, stomach, pancreas and colon. Expressed at intermediate level in testis, thyroid gland and spleen. Weakly expressed in whole brain, cerebral cortex, cerebellum, fetal brain, bone marrow, thymus, leukocytes, heart, skeletal muscle, liver, lung, esophagus, kidney, adrenal gland, mammary gland, uterus, placenta, ovary and prostate.
Pathway	Protein modification; protein glycosylation.
Involvement in disease	Defects in GALNT12 are a cause of susceptibility to colorectal cancer type 1 (CRCS1) [MIM:608812]. Colorectal cancer is a malignancy originating either in the colon or rectum or both.

Sequence similarities

Belongs to the glycosyltransferase 2 family, GalNAc-T subfamily.
Contains 1 ricin B-type lectin domain.

Domain

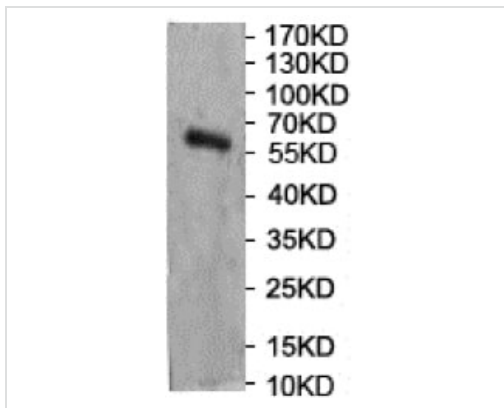
There are two conserved domains in the glycosyltransferase region: the N-terminal domain (domain A, also called GT1 motif), which is probably involved in manganese coordination and substrate binding and the C-terminal domain (domain B, also called Gal/GalNAc-T motif), which is probably involved in catalytic reaction and UDP-Gal binding.

The ricin B-type lectin domain binds to GalNAc and contributes to the glycopeptide specificity.

Cellular localization

Golgi apparatus membrane.

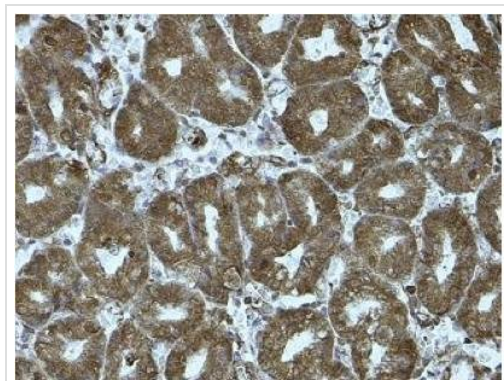
Images



Western blot - Anti-GALNT12 antibody (ab201196)

Anti-GALNT12 antibody (ab201196) at 1/500 dilution + A549 cell lysate

Predicted band size: 31, 67 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GALNT12 antibody (ab201196)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human fetal stomach tissue labeling GALNT12 with ab201196 at 1/100 dilution.

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