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# A4GALT Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10116a

## Product Information

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| **Application** | WB, E |
| **Primary Accession** | Q9NPC4 |
| **Other Accession** | NP_059132.1 |
| **Reactivity** | Human |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB19544 |
| **Calculated MW** | 40499 |
| **Antigen Region** | 26-54 |

## Additional Information

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| **Gene ID** | 53947 |
| **Other Names** | Lactosylceramide 4-alpha-galactosyltransferase, Alpha-1, 4-N-acetylglucosaminyltransferase, Alpha-1, 4-galactosyltransferase, Alpha4Gal-T1, CD77 synthase, Globotriaosylceramide synthase, Gb3 synthase, P1/Pk synthase, UDP-galactose:beta-D-galactosyl-beta1-R 4-alpha-D-galactosyltransferase, A4GALT, A14GALT, A4GALT1 |
| **Target/Specificity** | This A4GALT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 26-54 amino acids from the N-terminal region of human A4GALT. |
| **Dilution** | WB~~1:1000 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | A4GALT Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | A4GALT |

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| **Synonyms** | A14GALT, A4GALT1 |
| **Function** | Catalyzes the transfer of galactose from UDP-alpha-D- galactose to lactosylceramide/beta-D-galactosyl-(1->4)-beta-D-glucosyl-(11)-ceramide(d18:1(4E)) to produce globotriaosylceramide/globoside Gb3Cer (d18:1(4E)) (PubMed:10748143). Also able to transfer galactose to galactosylceramide/beta-D-Gal-(11')-Cer (PubMed:10748143). Globoside Gb3Cer is a glycosphingolipid of the globo serie, one of the major types of neutral root structures of glycosphingolipids, that constitute a significant portion of mammalian cell membranes (Probable). Globotriaosylceramide/globoside Gb3Cer in blood and tissue cell membranes is the antigen Pk of blood histogroup P (PubMed:10747952). |
| **Cellular Location** | Golgi apparatus membrane; Single- pass type II membrane protein |
| **Tissue Location** | Ubiquitous. Highly expressed in kidney, heart, spleen, liver, testis and placenta |

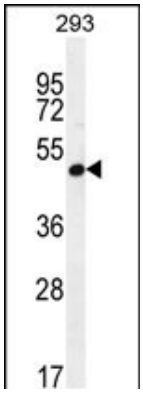
## Background

The protein encoded by this gene catalyzes the transfer of galactose to lactosylceramide to form globotriaosylceramide, which has been identified as the P(k) antigen of the P blood group system. The encoded protein, which is a type II membrane protein found in the Golgi, is also required for the synthesis of the bacterial verotoxins receptor.

## References


Zumbrun, S.D., et al. Infect. Immun. 78(11):4488-4499(2010)
Shin, I.S., et al. BMB Rep 42(5):310-314(2009)
Lund, N., et al. Blood 113(20):4980-4991(2009)
Okuda, T., et al. Glycobiology 18(12):1028-1035(2008)
Hellberg, A., et al. BMC Genet. 6, 49 (2005) :


## Images




A4GALT Antibody (N-term) (Cat. #AP10116a) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the A4GALT antibody detected the A4GALT protein (arrow).