

**DATASHEET**

**A4GALT Rabbit Polyclonal Antibody**

CAT. NO. APA14988

**KEY FEATURES**

Target	A4GALT	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at-20°C

**BACKGROUND**

Glycosyltransferase involved in biosynthesis of P1, P(k) and the rare NOR antigens of P1PK histo-blood group system and the rare NOR antigens of P1PK histo-blood group system . Catalyzes the transfer of galactose from UDP-alpha-D-galactose in an alpha1,4 linkage to lactosylceramide/beta-D-galactosyl-(1->4)-beta-D-glucosyl-(1->1)-ceramide(d18:1(4E)) to produce globotriaosylceramide/globoside Gb3Cer (d18:1(4E)), also known as P(k) antigen or CD77 . Globoside Gb3Cer/P(k)/CD77 is a root structure in biosynthesis pathway of neutral glycosphingolipids of the globo-series. Broadly expressed in cell membranes of immune cells and other tissues, Gb3Cer/P(k)/CD77 antigen may participate in mechanisms that regulate cell-cell interactions and cell differentiation.

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
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\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

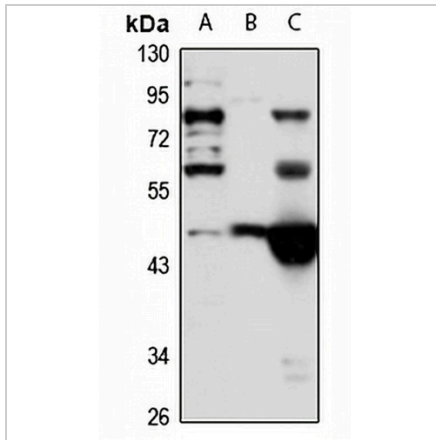
Description	Rabbit polyclonal antibody to A4GALT
Specificity	Recognizes endogenous levels of A4GALT protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human A4GALT. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 40 kD; Observed: 45 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	A14GALT; A4GALT1; 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
Gene Symbol	A4GALT
Entrez Gene	53947(Human); 239559(Mouse); 63888(Rat)
SwissProt	Q9NPC4(Human); Q67BJ4(Mouse); Q9JI93(Rat)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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**DATA**

Western blot analysis of A4GALT expression in A375 (A), mouse brain (B), rat kidney (C) whole cell lysates. (Predicted band size: 40 kD; Observed band size: 45 kD)

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.