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C1GALT1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5281

Product Information

Application	WB
Primary Accession	Q9NS00
Reactivity	Human
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42203
Isotype	Rabbit IgG
Antigen Source	Human

Additional Information

Gene ID	56913
Antigen Region	115-144
Other Names	Glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1;Glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1; Glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1; B3Gal-T8; Glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1; Core 1 O-glycan T-synthase; Glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1; Core 1 UDP-galactose:N-acetylgalactosamine-alpha-R beta 1, 3-galactosyltransferase 1; Glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1; Core 1 beta1, 3-galactosyltransferase 1
Dilution	WB~~1:1000
Target/Specificity	This C1GALT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 115-144 amino acids from the Central region of human C1GALT1.
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	C1GALT1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	C1GALT1
Function	Glycosyltransferase that generates the core 1 O-glycan Gal-beta1-3GalNAc-alpha1-Ser/Thr (T antigen), which is a precursor for many extended O-glycans in glycoproteins (PubMed:11677243). Plays a central role in many processes, such as angiogenesis, thrombopoiesis and kidney homeostasis development (By similarity).
Cellular Location	Membrane {ECO:0000250|UniProtKB:Q9JJ05}; Single- pass type II membrane protein
Tissue Location	Widely expressed. Highly expressed in kidney, heart, placenta and liver.

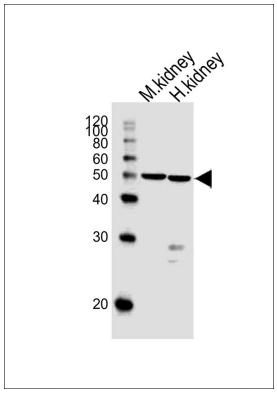
Background

Glycosyltransferase that generates the core 1 O-glycan Gal-beta1-3GalNAc-alpha1-Ser/Thr (T antigen), which is a precursor for many extended O-glycans in glycoproteins. Plays a central role in many processes, such as angiogenesis, thrombopoiesis and kidney homeostasis development.

References

Ju T., et al. J. Biol. Chem. 277:178-186(2002).
Jensen M.P.A., et al. Submitted (JUN-1999) to the EMBL/GenBank/DDBJ databases.
Hillier L.W., et al. Nature 424:157-164(2003).
Scherer S.W., et al. Science 300:767-772(2003).
Ju T., et al. Proc. Natl. Acad. Sci. U.S.A. 99:16613-16618(2002).

Images



Western blot analysis of lysates from mouse kidney and human kidney tissue (from left to right), using C1GALT1 Antibody (Center)(Cat. #AW5281). AW5281 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.