10320 Camino Santa Fe, Suite G
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GALNT13 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP18212c

Specification

GALNT13 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q8IUC8
Other Accession	Q6UE39, Q8CF93, Q10473, Q29121, O08912, Q10472, Q07537, NP_443149.2
Reactivity	**Human, Mouse**
Predicted	**Bovine, Pig, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**64051**
Antigen Region	**252-281**

GALNT13 Antibody (Center) - Additional Information

Gene ID 114805

Other Names
Polypeptide N-acetylgalactosaminyltransferase 13, Polypeptide GalNAc transferase 13, GalNAc-T13, pp-GaNTase 13, Protein-UDP acetylgalactosaminyltransferase 13, UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 13, GALNT13, KIAA1918

Target/Specificity
This GALNT13 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 252-281 amino acids from the Central region of human GALNT13.

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
GALNT13 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

GALNT13 Antibody (Center) - Protein Information

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Name GALNT13

Synonyms KIAA1918

Function Catalyzes the initial reaction in O-linked oligosaccharide biosynthesis, the transfer of an N-acetyl-D-galactosamine (GalNAc) residue from UDP-GalNAc to a serine or threonine residue on the protein receptor (PubMed:12407114, PubMed:22186971). Generates GalNAc-O-Ser/Thr structure also known as Tn antigen, which itself is immunogenic but also serves as a precursor for the synthesis of different mucin-type O- glycan core structures (PubMed:12407114). Contributes to the synthesis of O-linked glycans on mucins and proteoglycans of the central nervous system. May promote neurogenesis through glycosylation and stabilization of PDPN (By similarity) (PubMed:12407114, PubMed:22186971).

Cellular Location
Golgi apparatus membrane; Single- pass type II membrane protein

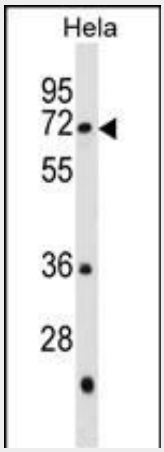
Tissue Location
Specifically expressed in neuronal cells. Expressed in fetal brain, whole adult brain, cerebral cortex and cerebellum. Not expressed in other tissues tested.

GALNT13 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GALNT13 Antibody (Center) - Images



GALNT13 Antibody (Center) (Cat. #AP18212c) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the GALNT13 antibody detected the GALNT13 protein (arrow).

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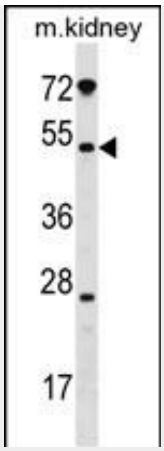

GALNT13 Antibody (Center) (Cat. #AP18212c) western blot analysis in mouse kidney tissue lysates (35ug/lane).This demonstrates the GALNT13 antibody detected the GALNT13 protein (arrow).

GALNT13 Antibody (Center) - Background

The GALNT13 protein is a member of the UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase (GalNAcT; EC 2.4.1.41) family, which initiate O-linked glycosylation of mucins (see MUC3A, MIM 158371) by the initial transfer of N-acetylgalactosamine (GalNAc) with an alpha-linkage to a serine or threonine residue.[supplied by OMIM].

GALNT13 Antibody (Center) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Ng, D., et al. Int. J. Cancer 123(7):1610-1615(2008)
Lunetta, K.L., et al. BMC Med. Genet. 8 SUPPL 1, S13 (2007) :
Hillier, L.W., et al. Nature 434(7034):724-731(2005)
Lehner, B., et al. Genome Res. 14(7):1315-1323(2004)