

β-1,4-Gal-T5 Polyclonal Antibody
Catalog # AP73193**Specification****β-1,4-Gal-T5 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	O43286
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal

β-1,4-Gal-T5 Polyclonal Antibody - Additional Information**Gene ID** 9334**Other Names**

B4GALT5; Beta-1; 4-galactosyltransferase 5; Beta-1, 4-GalTase 5; Beta4Gal-T5; b4Gal-T5; Beta-1, 4-GalT II; UDP-Gal:beta-GlcNAc beta-1, 4-galactosyltransferase 5; UDP-galactose:beta-N-acetylglucosamine beta-1, 4-galactosyltransferase 5

Dilution

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

β-1,4-Gal-T5 Polyclonal Antibody - Protein Information**Name** B4GALT5 ([HGNC:928](#))**Function**

Catalyzes the synthesis of lactosylceramide (LacCer) via the transfer of galactose from UDP-galactose to glucosylceramide (GlcCer) (PubMed:[24498430](http://www.uniprot.org/citations/24498430)). LacCer is the starting point in the biosynthesis of all gangliosides (membrane-bound glycosphingolipids) which play pivotal roles in the CNS including neuronal maturation and axonal and myelin formation (By similarity). Plays a role in the glycosylation of BMPR1A and regulation of its protein stability (By similarity). Essential for extraembryonic development during early embryogenesis (By similarity).

Cellular Location

Golgi apparatus, Golgi stack membrane {ECO:0000250|UniProtKB:P15291}; Single-pass type II membrane protein Golgi apparatus {ECO:0000250|UniProtKB:A0A1S6M251}. Note=Trans cisternae of Golgi stack. {ECO:0000250|UniProtKB:P15291}

Tissue Location

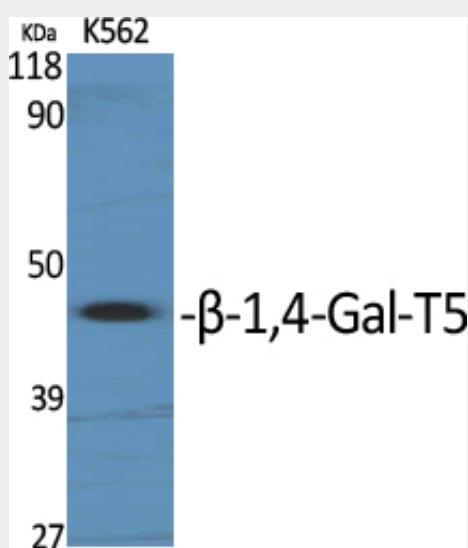
Ubiquitously expressed.

β -1,4-Gal-T5 Polyclonal Antibody - Protocols

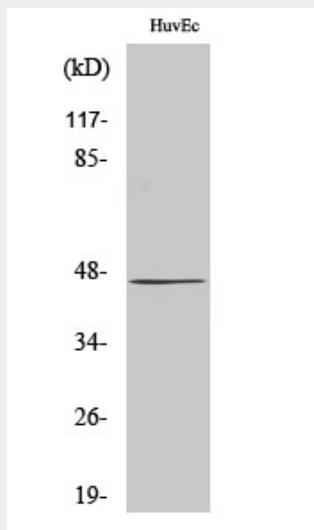
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

β -1,4-Gal-T5 Polyclonal Antibody - Images



Western Blot analysis of various cells using β -1,4-Gal-T5 Polyclonal Antibody diluted at 1:1000. Secondary antibody was diluted at 1:20000



Western Blot analysis of 293 cells using β -1,4-Gal-T5 Polyclonal Antibody diluted at 1:1000. Secondary antibody was diluted at 1:20000

β -1,4-Gal-T5 Polyclonal Antibody - Background

Catalyzes the synthesis of lactosylceramide (LacCer) via the transfer of galactose from UDP-galactose to glucosylceramide (GlcCer) (PubMed:24498430). LacCer is the starting point in the biosynthesis of all gangliosides (membrane-bound glycosphingolipids) which play pivotal roles in the CNS including neuronal maturation and axonal and myelin formation (By similarity). Plays a role in the glycosylation of BMPR1A and regulation of its protein stability (By similarity). Essential for extraembryonic development during early embryogenesis (By similarity).