

β-1,4-Gal-T5 Polyclonal Antibody

Catalog # AP73193

Product Information

ApplicationWBPrimary Accession043286

Reactivity Human, Mouse

HostRabbitClonalityPolyclonalCalculated MW45119

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

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:<u>24498430</u>). 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.

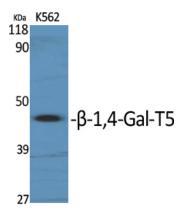
{ECO:0000250 | UniProtKB:P15291}

Tissue Location Ubiquitously expressed.

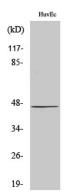
Background

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).

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.