

## B4galt5 antibody - C-terminal region

Rabbit Polyclonal Antibody Catalog # AI12691

## **Product Information**

Horse, Bovine
ovine

## **Additional Information**

Gene ID	56336
Alias Symbol Other Names	9430078I07Rik, AW049941, AW539721 Beta-1, 4-galactosyltransferase 5, Beta-1, 4-GalTase 5, Beta4Gal-T5, b4Gal-T5, 2.4.1, Beta-1, 4-GalT II, UDP-Gal:beta-GlcNAc beta-1, 4-galactosyltransferase 5, UDP-galactose:beta-N-acetylglucosamine beta-1, 4-galactosyltransferase 5, B4galt5, Bgt-5
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-B4galt5 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	B4galt5 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

## **Protein Information**

Name	B4galt5 {ECO:0000312   MGI:MGI:1927169}
Synonyms	Bgt-5
Function	Catalyzes the synthesis of lactosylceramide (LacCer) via the transfer of galactose from UDP-galactose to glucosylceramide (GlcCer) (PubMed: <u>21057870</u> , PubMed: <u>23882130</u> , PubMed: <u>30114188</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 (PubMed: <u>30114188</u> ). Plays a

	role in the glycosylation of BMPR1A and regulation of its protein stability (PubMed: <u>29415997</u> ). Essential for extraembryonic development during early embryogenesis (PubMed: <u>20574042</u> , PubMed: <u>21057870</u> ).
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	Highest levels in heart, brain, liver and kidney with lower levels in spleen, lung and testis
Images	



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