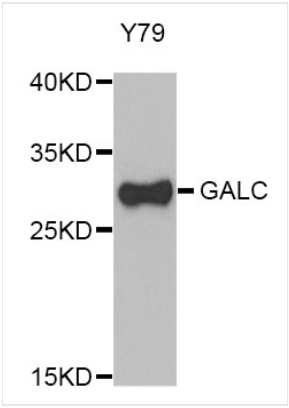
# GALC Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | GALC, Polyclonal Antibody |
| **Full Product Name** | GALC Polyclonal Antibody |
| **Product Gene Name** | anti-GALC antibody |
| **Product Synonym Names** | Gacy; Galactocerebrosidase; Galactocerebroside beta galactosidase; galactosylceraminidase; Galc; GALCERase; Twitcher |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Purity/Purification** | Antigen Affinity Purification |
| **Preparation and Storage** | Store at -20 degree C. Avoid freeze/thaw cycles. |
| **Molecular Weight** | 77kDa |
| **Immunogen** | Recombinant protein of human GALC |
| **Buffer** | PBS with 0.02% sodium azide, 50% glycerol, pH7.3 |
| **Santa Cruz Alternative** | Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-49287 / sc-49289 / sc-67352 |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-GALC antibody** | Western Blot (WB) |
| **Application Notes for anti-GALC antibody** | WB: 1:500 - 1:2000 |
| **Related Product Information for anti-GALC antibody** | MBS2541253 is an antibody targeting GALC. Also known as GALC Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. |
| **Other Notes** | Small volumes of anti-GALC antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**Western Blot (WB) of anti-GALC antibody**
Western blot analysis of extracts of Y79 cell line, using GALC antibody.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GALC. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 319655720 |
| **NCBI GeneID** | 2581 |
| **UniProt Secondary Accession #** | Q8J030; B4DKE8; B4DYN1; B4DZJ8; B7Z7Z2; J3KN25; J3KPP8 |
| **UniProt Related Accession #** | P54803 |
| **GenBank Nucleotide #** | NM_001201402.1 |
| **NCBI Official Full Name** | galactocerebrosidase isoform d |
| **NCBI Official Synonym Full Names** | galactosylceramidase |
| **NCBI Official Symbol** | GALC |
| **UniProt Protein Name** | Galactocerebrosidase |
| **UniProt Synonym Protein Names** | Galactocerebroside beta-galactosidase; Galactosylceramidase; Galactosylceramide beta-galactosidase |
| **Protein Family** | 4-carboxy-4-hydroxy-2-oxoadipic acid aldolase |
| **UniProt Gene Name** | GALC |
| **UniProt Synonym Gene Names** | GALCERase |
| **UniProt Entry Name** | GALC_HUMAN |
| **NCBI Protein Information** | galactocerebrosidase |
| **NCBI Summary for GALC** | This gene encodes a lysosomal protein which hydrolyzes the galactose ester bonds of galactosylceramide, galactosylsphingosine, lactosylceramide, and monogalactosyldiglyceride. Mutations in this gene have been associated with Krabbe disease, also known as globoid cell leukodystrophy. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008] |

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| **UniProt Comments for GALC** | GALC: Hydrolyzes the galactose ester bonds of galactosylceramide, galactosylsphingosine, lactosylceramide, and monogalactosyldiglyceride. Enzyme with very low activity responsible for the lysosomal catabolism of galactosylceramide, a major lipid in myelin, kidney and epithelial cells of small intestine and colon. Defects in GALC are the cause of leukodystrophy globoid cell (GLD); also known as Krabbe disease. This autosomal recessive disorder results in the insufficient catabolism of several galactolipids that are important in the production of normal myelin. Clinically, the most frequent form is the infantile form. Most patients (90%) present before six months of age with irritability, spasticity, arrest of motor and mental development, and bouts of temperature elevation without infection. This is followed by myoclonic jerks of arms and legs, oposthotonus, hypertonic fits, and mental regression, which progresses to a severe decerebrate condition with no voluntary movements and death from respiratory infections or cerebral hyperpyrexia before 2 years of age. However, a significant number of cases with later onset, presenting with unexplained blindness, weakness and/or progressive motor, and sensory neuropathy that can progress to severe mental incapacity and death, have been identified. Belongs to the glycosyl hydrolase 59 family. 4 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: EC 3.2.1.46; Hydrolase; Lipid Metabolism - sphingolipid<br><br>Chromosomal Location of Human Ortholog: 14q31<br><br>Cellular Component: lysosomal lumen; lysosome<br><br>Molecular Function: galactosylceramidase activity<br><br>Biological Process: galactosylceramide catabolic process; glycosphingolipid metabolic process<br><br>Disease: Krabbe Disease |
| **Research Articles on GALC** | **1.** Mutations in GALC cause late-onset Krabbe disease with predominant cerebellar ataxia |
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