

# GALC Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP22090a

## Product Information

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Application	WB, FC, E
Primary Accession	<a href="#">P54803</a>
Other Accession	<a href="#">P54804</a> , <a href="#">O02791</a> , <a href="#">P54818</a>
Reactivity	Human, Mouse
Predicted	Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB55884
Calculated MW	77063

## Additional Information

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Gene ID	2581
Other Names	Galactocerebrosidase, GALCERase, 3.2.1.46, Galactocerebroside beta-galactosidase, Galactosylceramidase, Galactosylceramide beta-galactosidase, GALC
Target/Specificity	This GALC antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 26-56 amino acids from human GALC.
Dilution	WB~~1:2000 FC~~1:25 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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	GALC Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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Name	GALC ( <a href="#">HGNC:4115</a> )
Function	Hydrolyzes the galactose ester bonds of glycolipids such as galactosylceramide and galactosylsphingosine (PubMed: <a href="#">8281145</a> , PubMed: <a href="#">8399327</a> ). 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 (PubMed:[8281145](#), PubMed:[8399327](#)).

**Cellular Location**

Lysosome.

**Tissue Location**

Detected in urine. Detected in testis, brain and placenta (at protein level).  
Detected in kidney and liver

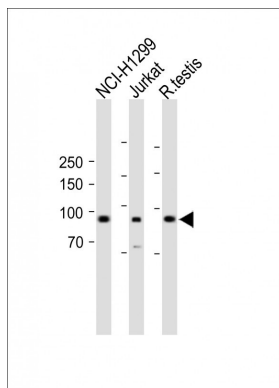
## Background

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.

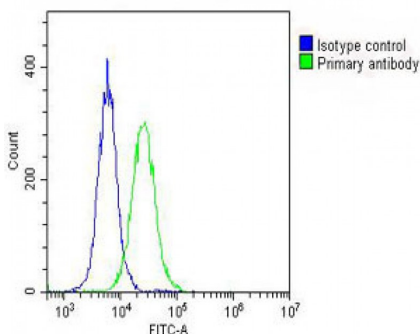
## References

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## Images



All lanes : GALC Antibody (N-Term) at 1:1000 dilution  
Lane 1 : NCI-H1299 whole cell lysate Lane 2 : Jurkat whole cell lysate Lane 3 : Rat testis lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 80kDa Blocking/Dilution buffer : 5% NFDM/TBST.



Overlay histogram showing HeLa cells stained with AP22090a (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP22090a, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG (1µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10, 000 events was performed.

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