

GALC Antibody (N-Term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22090a

Specification

GALC Antibody (N-Term) - Product Information

Application	WB, FC,E
Primary Accession	P54803
Other Accession	P54804 , O02791 , P54818
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	77063
Antigen Region	26-56

GALC Antibody (N-Term) - Additional Information

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

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. 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.

GALC Antibody (N-Term) - Protein Information

Name GALC ([HGNC:4115](#))

Function Hydrolyzes the galactose ester bonds of glycolipids such as galactosylceramide and galactosylsphingosine (PubMed:[8281145](#), PubMed:[8399327](#)). 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

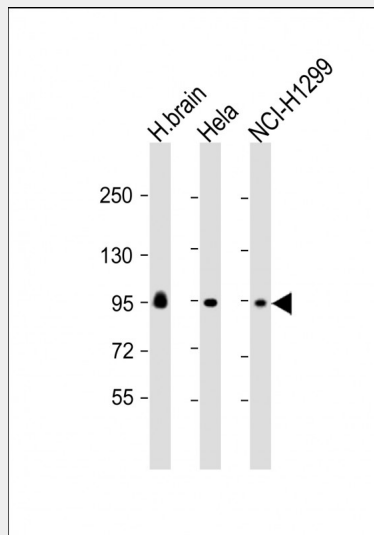
Detected in urine. Detected in testis, brain and placenta (at protein level). Detected in kidney and liver

GALC Antibody (N-Term) - Protocols

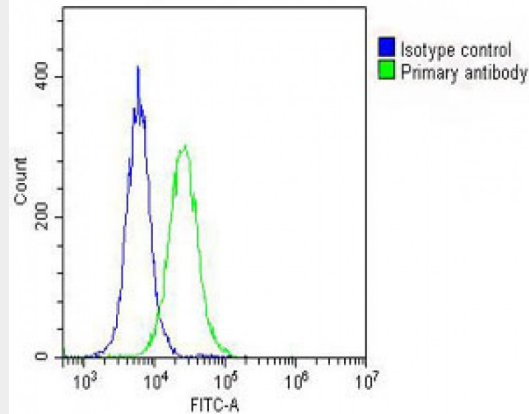
Provided below are standard protocols that you may find useful for product applications.

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

GALC Antibody (N-Term) - Images



All lanes : Anti-GALC Antibody (N-Term) at 1:2000 dilution Lane 1: human brain lysate Lane 2: HeLa whole cell lysate Lane 3: NCI-H1299 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 77 kDa Blocking/Dilution buffer: 5% NFD/MTBST.



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/1x10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.

GALC Antibody (N-Term) - 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.

GALC Antibody (N-Term) - References

- Luzi P., et al. *Genomics* 26:407-409(1995).
- Sakai N., et al. *Biochim. Biophys. Acta* 1395:62-67(1998).
- Ota T., et al. *Nat. Genet.* 36:40-45(2004).
- Heilig R., et al. *Nature* 421:601-607(2003).
- Chen Y.Q., et al. *Hum. Mol. Genet.* 2:1841-1845(1993).