

GBA3 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50623**Specification**

GBA3 Antibody - Product Information

Application	WB
Primary Accession	Q9H227
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	54,18 KDa
Antigen Region	302-331

GBA3 Antibody - Additional Information**Gene ID** 57733**Other Names**

Cytosolic beta-glucosidase, Cytosolic beta-glucosidase-like protein 1, GBA3, CBG, CBGL1

Dilution

WB~~ 1:500-1:1000

FormatRabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.**Storage Conditions**

-20°C

GBA3 Antibody - Protein Information**Name** GBA3 ([HGNC:19069](#))**Synonyms** CBG, CBGL1**Function**

Neutral cytosolic beta-glycosidase with a broad substrate specificity that could play a role in the catabolism of glycosylceramides (PubMed:11389701, PubMed:11784319, PubMed:20728381, PubMed:26724485, PubMed:17595169, PubMed:33361282). Has a significant glucosylceramidase activity in vitro (PubMed:26724485, PubMed:17595169).

However, that activity is relatively low and its significance in vivo is not clear (PubMed:26724485, PubMed:17595169, PubMed:20728381). Hydrolyzes galactosylceramides/GalCers, glucosylsphingosines/GlcSphs and galactosylsphingosines/GalSphs (PubMed:17595169). However, the in vivo relevance of these activities is unclear (PubMed:17595169). It can also hydrolyze a broad variety of dietary glycosides including phytoestrogens, flavonols, flavones, flavanones and cyanogens in vitro and could therefore play a role in the metabolism of xenobiotics (PubMed:11784319). Possesses transxylosylase activity in vitro using xylosylated ceramides/XylCers (such as beta-D-xylosyl-(1<->1')-N-acylsphing-4-ene) as xylosyl donors and cholesterol as acceptor (PubMed:33361282). Could also play a role in the catabolism of cytosolic sialyl free N-glycans (PubMed:26193330).

Cellular Location

Cytoplasm, cytosol

Tissue Location

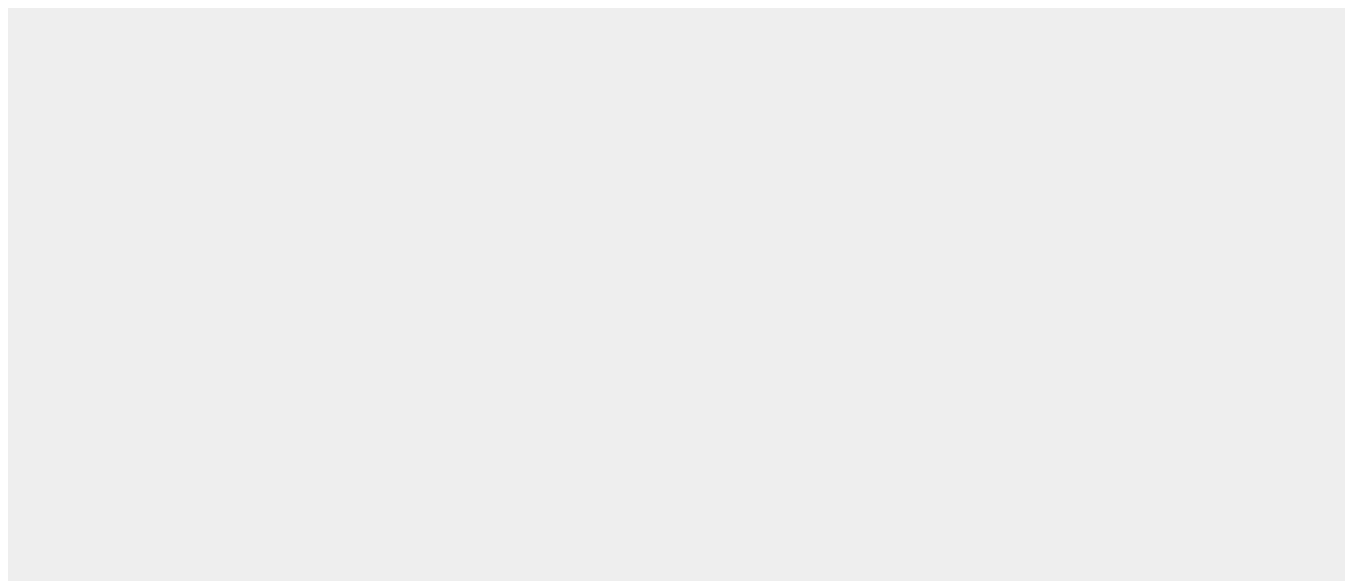
Present in small intestine (at protein level). Expressed in liver, small intestine, colon, spleen and kidney. Down- regulated in renal cell carcinomas and hepatocellular carcinomas

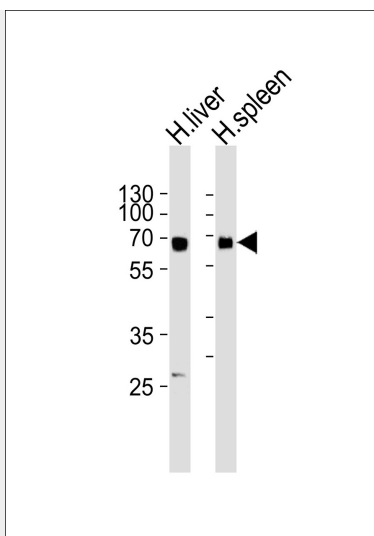
GBA3 Antibody - Protocols

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](#)

GBA3 Antibody - Images





Western blot analysis of lysates from human liver and spleen tissue lysate (from left to right), using GBA3 Antibody (AP50623). AP50623 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35 µg per lane.

GBA3 Antibody - Background

Glycosidase probably involved in the intestinal absorption and metabolism of dietary flavonoid glycosides. Able to hydrolyze a broad variety of glycosides including phytoestrogens, flavonols, flavones, flavanones and cyanogens. Possesses beta- glycosylceramidase activity and may be involved in a nonlysosomal catabolic pathway of glycosylceramide.

GBA3 Antibody - References

Yahata K., et al. J. Mol. Med. 78:389-394 (2000).
de Graaf M., et al. Biochem. J. 356:907-910 (2001).
Berrin J.-G., et al. Eur. J. Biochem. 269:249-258 (2002).
Hays W.S., et al. Submitted (NOV-2000) to the EMBL/GenBank/DDBJ databases.
Suzuki Y., et al. Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.