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

Specification

GBA3 Antibody - Product Information

Application	**WB**
Primary Accession	O9H227
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

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

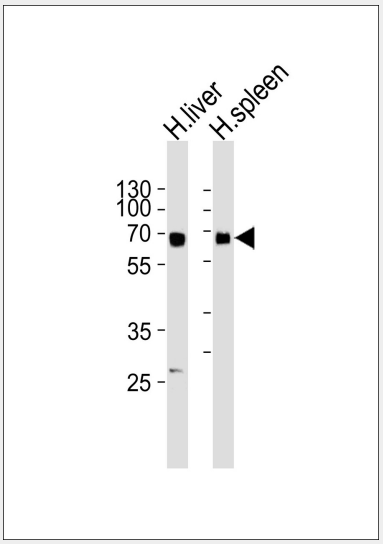
Storage Conditions
-20℃

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:<a href="http://www.uniprot.org/ci



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 35ug 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.

tations/11784319" target="_blank">11784319, PubMed:20728381, PubMed:26724485, PubMed:17595169). 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). Also able to hydrolyze galactosylceramide/GalCer, glucosylsphingosine/GlcSph and galactosylsphingosine/GalSph (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). 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,

Suzuki Y.,et al.Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.

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 Cytomety
- Cell Culture