

GBA3 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55124

Specification

GBA3 Polyclonal Antibody - Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	O9H227
Reactivity	Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53696

GBA3 Polyclonal Antibody - Additional Information

Gene ID 57733

Other Names

Cytosolic beta-glucosidase, 3.2.1.21, Cytosolic beta-glucosidase-like protein 1, Cytosolic glycosylceramidase, Cytosolic GCase, Glucosidase beta acid 3 {ECO:0000312|HGNC:HGNC:19069}, Glucosylceramidase beta 3 {ECO:0000312|HGNC:HGNC:19069}, Klotho-related protein, KLRP, GBA3 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=19069 target="_blank">HGNC:19069), CBG, CBGL1

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glycerol

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

GBA3 Polyclonal 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](http://www.uniprot.org/citations/11389701), PubMed: [11784319](http://www.uniprot.org/citations/11784319), PubMed: [17595169](http://www.uniprot.org/citations/17595169), PubMed: [20728381](http://www.uniprot.org/citations/20728381), PubMed: [26724485](http://www.uniprot.org/citations/26724485), PubMed: [33361282](http://www.uniprot.org/citations/33361282)). Has a significant glucosylceramidase activity in vitro (PubMed: [17595169](http://www.uniprot.org/citations/17595169)),

PubMed:26724485). However, that activity is relatively low and its significance in vivo is not clear (PubMed:17595169, PubMed:20728381, PubMed:26724485). 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-enine) 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 Polyclonal 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 Polyclonal Antibody - Images