

**Anti-GBA3 Antibody**  
**Rabbit polyclonal antibody to GBA3**  
**Catalog # AP60292****Specification**

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**Anti-GBA3 Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">Q9H227</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 53696                  |

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

CBG; CBGL1; Cytosolic beta-glucosidase; Cytosolic beta-glucosidase-like protein 1

**Target/Specificity**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human GBA3. The exact sequence is proprietary.

**Dilution**

WB~~WB (1/500 - 1/1000)

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-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: <a href="http://www.uniprot.org/citations/11389701" target="\_blank">11389701</a>, PubMed: <a href="http://www.uniprot.org/citations/11784319" target="\_blank">11784319</a>, PubMed: <a href="http://www.uniprot.org/citations/17595169" target="\_blank">17595169</a>, PubMed: <a href="http://www.uniprot.org/citations/20728381" target="\_blank">20728381</a>, PubMed: <a href="http://www.uniprot.org/citations/26724485" target="\_blank">26724485</a>, PubMed: <a href="http://www.uniprot.org/citations/33361282" target="\_blank">33361282</a>)

target="\_blank">33361282</a>). Has a significant glucosylceramidase activity in vitro (PubMed:<a href="http://www.uniprot.org/citations/17595169" target="\_blank">17595169</a>, PubMed:<a href="http://www.uniprot.org/citations/26724485" target="\_blank">26724485</a>). However, that activity is relatively low and its significance in vivo is not clear (PubMed:<a href="http://www.uniprot.org/citations/17595169" target="\_blank">17595169</a>, PubMed:<a href="http://www.uniprot.org/citations/20728381" target="\_blank">20728381</a>, PubMed:<a href="http://www.uniprot.org/citations/26724485" target="\_blank">26724485</a>). Hydrolyzes galactosylceramides/GalCers, glucosylsphingosines/GlcSphs and galactosylsphingosines/GalSphs (PubMed:<a href="http://www.uniprot.org/citations/17595169" target="\_blank">17595169</a>). However, the in vivo relevance of these activities is unclear (PubMed:<a href="http://www.uniprot.org/citations/17595169" target="\_blank">17595169</a>). 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:<a href="http://www.uniprot.org/citations/11784319" target="\_blank">11784319</a>). 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:<a href="http://www.uniprot.org/citations/33361282" target="\_blank">33361282</a>). Could also play a role in the catabolism of cytosolic sialyl free N-glycans (PubMed:<a href="http://www.uniprot.org/citations/26193330" target="\_blank">26193330</a>).

**Cellular Location**

Cytoplasm, cytosol

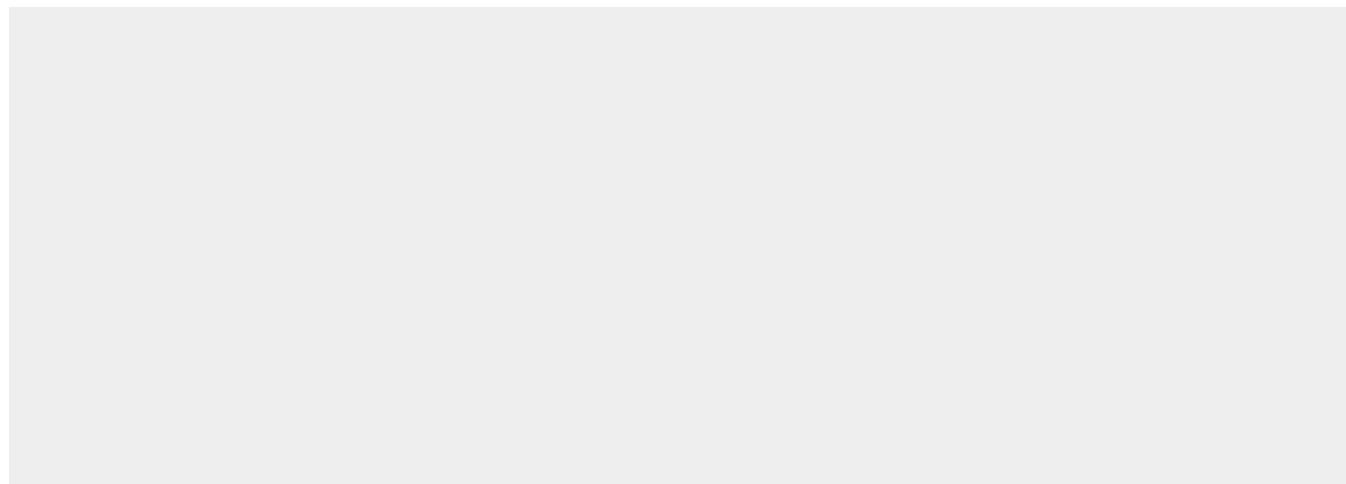
**Tissue Location**

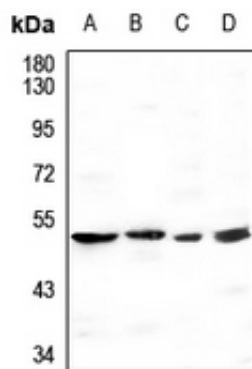
Present in small intestine (at protein level). Expressed in liver, small intestine, colon, spleen and kidney. Down- regulated in renal cell carcinomas and hepatocellular carcinomas

**Anti-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](#)

**Anti-GBA3 Antibody - Images**



Western blot analysis of GBA3 expression in LO2 (A), HepG2 (B), CT26 (C), rat liver (D) whole cell lysates.

#### **Anti-GBA3 Antibody - Background**

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