

## Product datasheet for **TA502602BM**

### **GBA3 Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI1F1]**

#### **Product data:**

|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies  |
| Clone Name:             | OTI1F1  |
| Applications:           | FC, IHC, WB   |
| Recommended Dilution:   | WB 1:500~2000, IHC 1:150, FLOW 1:100  |
| Reactivity:             | Human   |
| Host:                   | Mouse   |
| Isotype:                | IgG2a   |
| Clonality:              | Monoclonal  |
| Immunogen:              | Human recombinant protein fragment corresponding to amino acids 1-150 and 370-469 of human GBA3 (NP_066024) produced in E.coli. |
| Formulation:            | PBS (pH 7.3) containing 1% BSA, 50% glycerol.   |
| Concentration:          | 0.5 mg/ml   |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)                       |
| Conjugation:            | HRP   |
| Storage:                | Store at -20°C as received.   |
| Stability:              | Stable for 12 months from date of receipt.  |
| Predicted Protein Size: | 53.5 kDa  |
| Gene Name:              | glucosylceramidase beta 3 (gene/pseudogene)   |
| Database Link:          | <a href="#">NP_066024</a><br><a href="#">Entrez Gene 57733 Human</a><br><a href="#">Q9H227</a>                                  |



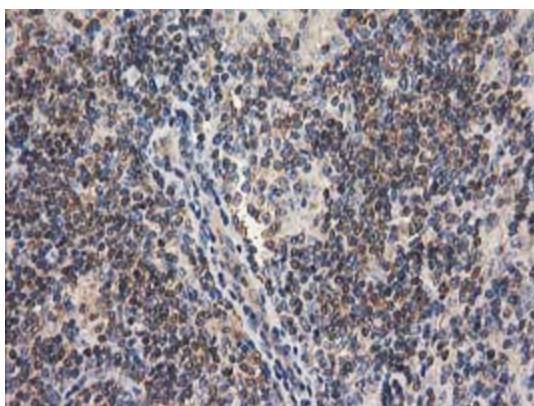
[View online »](#)

**Background:** GBA3, or cytosolic beta-glucosidase (EC 3.2.1.21), is a predominantly liver enzyme that efficiently hydrolyzes beta-D-glucoside and beta-D-galactoside, but not any known physiologic beta-glycoside, suggesting that it may be involved in detoxification of plant glycosides (de Graaf et al., 2001 [PubMed 11389701]). GBA3 also has significant neutral glycosylceramidase activity (EC 3.2.1.62), suggesting that it may be involved in a nonlysosomal catabolic pathway of glucosylceramide metabolism (Hayashi et al., 2007 [PubMed 17595169]). [supplied by OMIM]

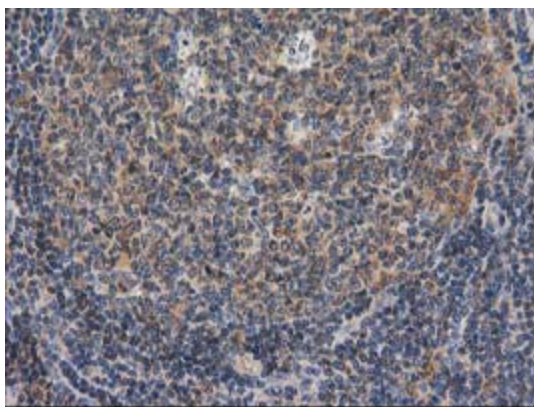
**Synonyms:** CBG; CBGL1; GLUC; KLRP

**Protein Pathways:** Cyanoamino acid metabolism, Starch and sucrose metabolism

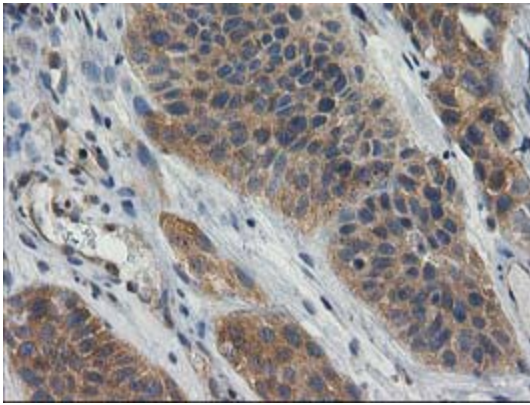
### Product images:



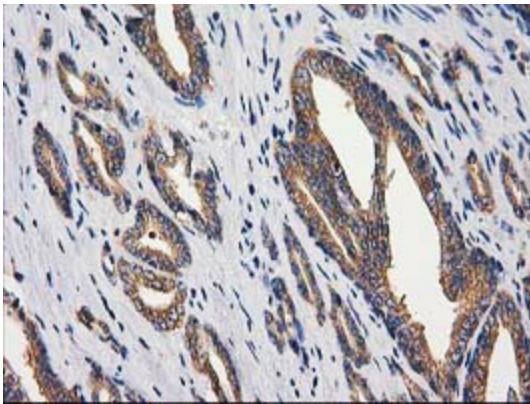
Immunohistochemical staining of paraffin-embedded Human lymphoma tissue using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502602])



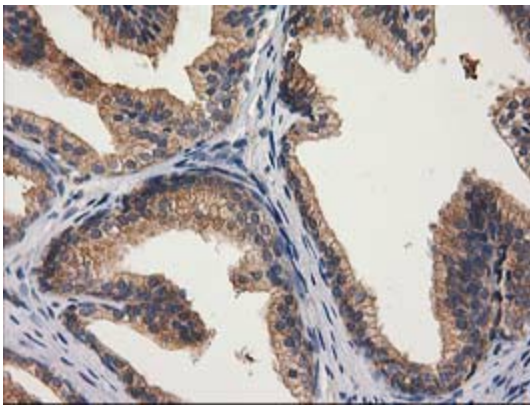
Immunohistochemical staining of paraffin-embedded Human lymph node tissue within the normal limits using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502602])



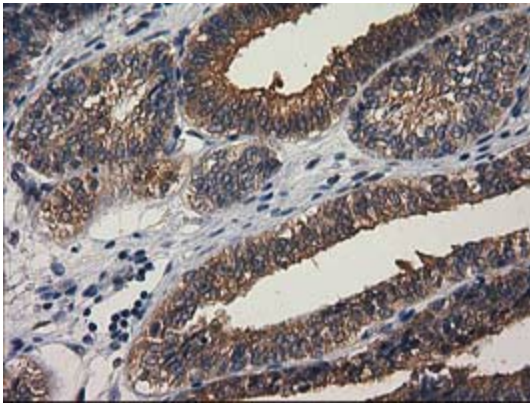
Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502602])



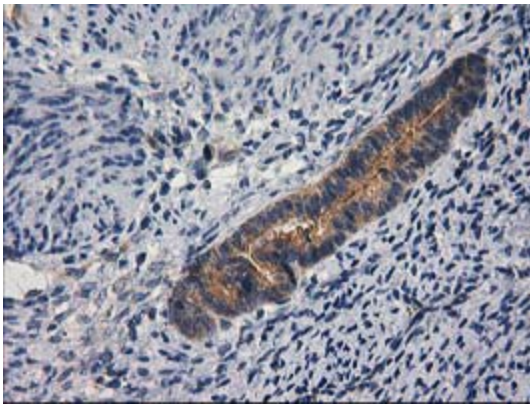
Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502602])



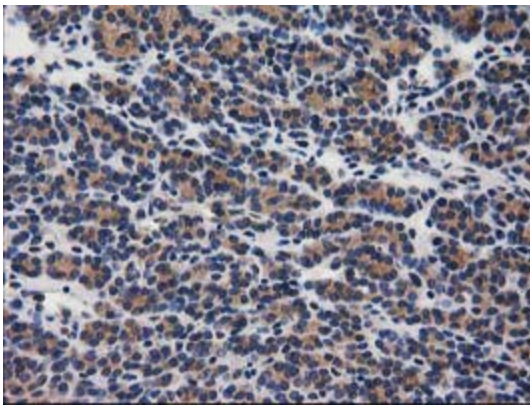
Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502602])



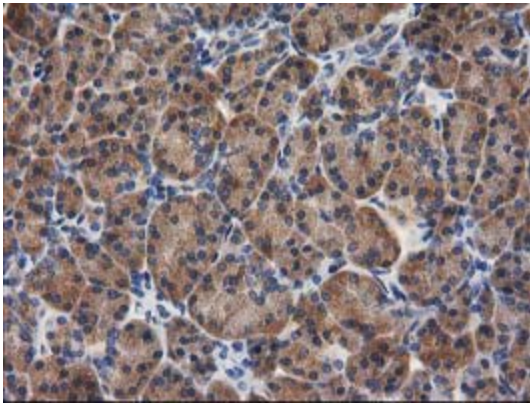
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502602])



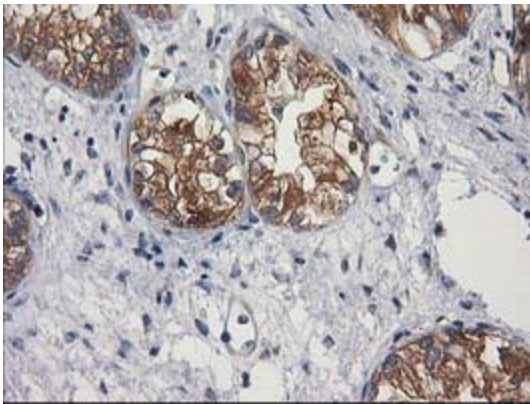
Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502602])



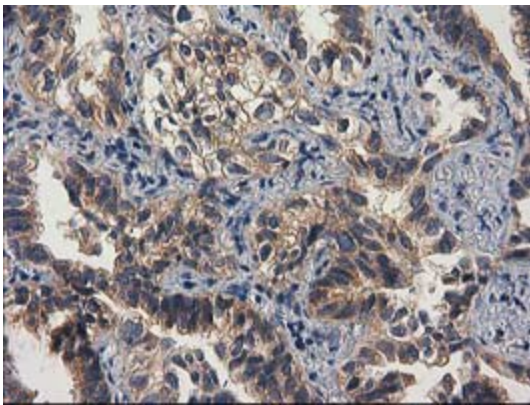
Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502602])



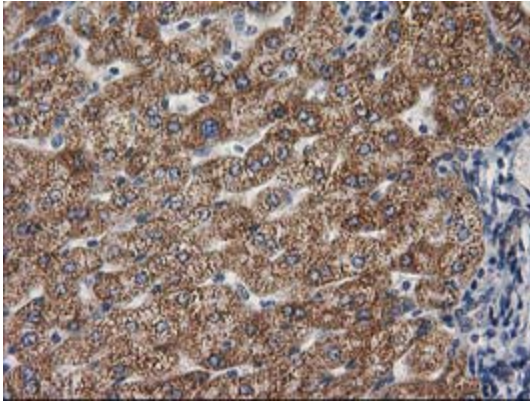
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502602])



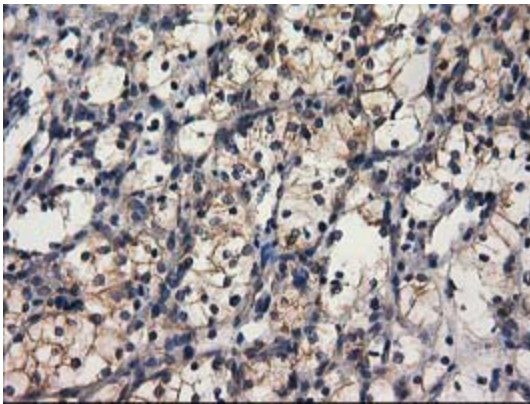
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502602])



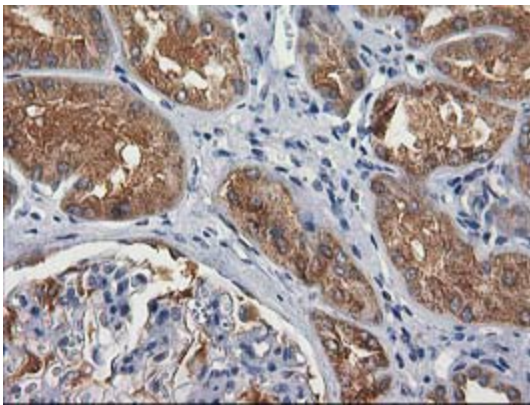
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502602])



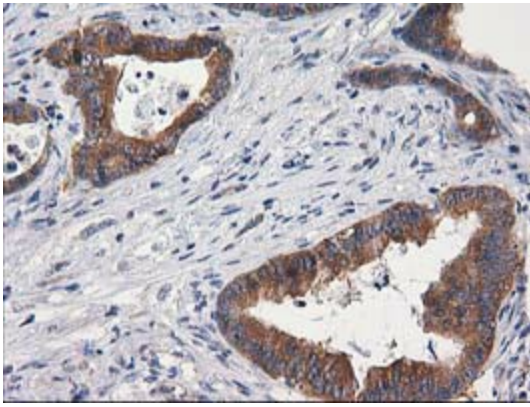
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502602])



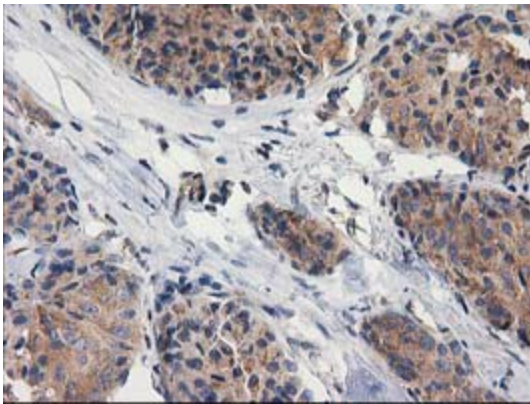
Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502602])



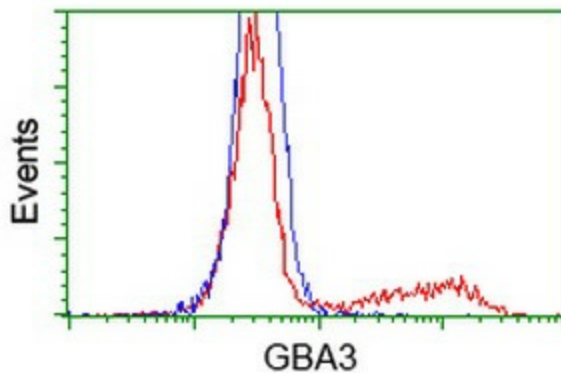
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502602])



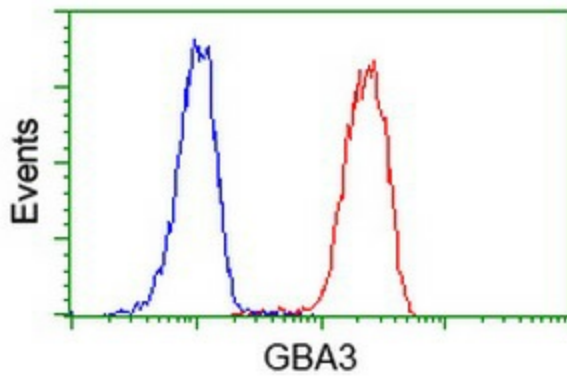
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502602])



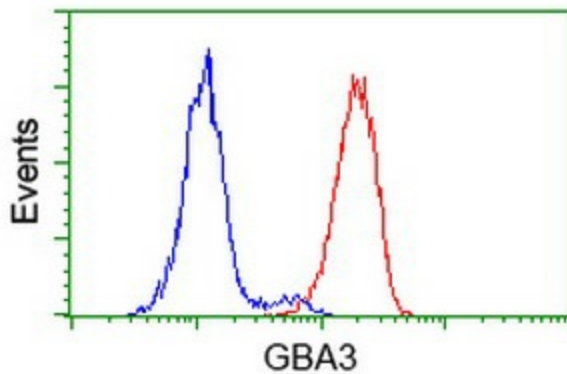
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502602])



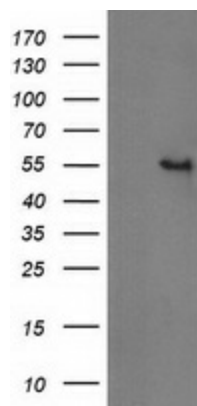
HEK293T cells transfected with either [RC211035] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-GBA3 antibody ([TA502602]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Jurkat cells, using anti-GBA3 antibody ([TA502602]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).

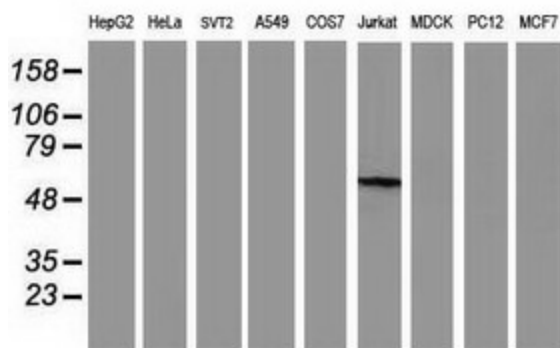


Flow cytometric Analysis of HeLa cells, using anti-GBA3 antibody ([TA502602]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY GBA3 (Cat# [RC211035], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GBA3(Cat# [TA502602]). Positive lysates [LY402815] (100ug) and [LC402815] (20ug) can be purchased separately from OriGene.





Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-GBA3 monoclonal antibody.