OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

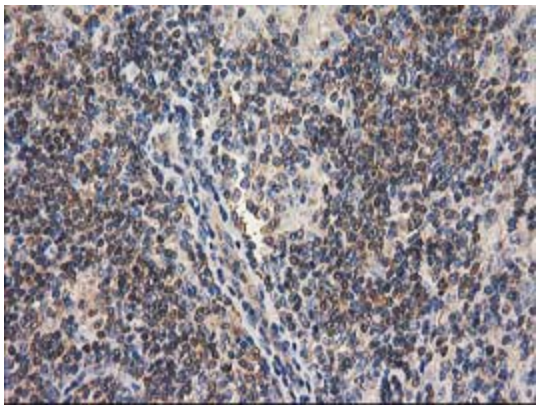
Product datasheet for TA502602

GBA3 Mouse Monoclonal Antibody [Clone ID: OTI1F1]

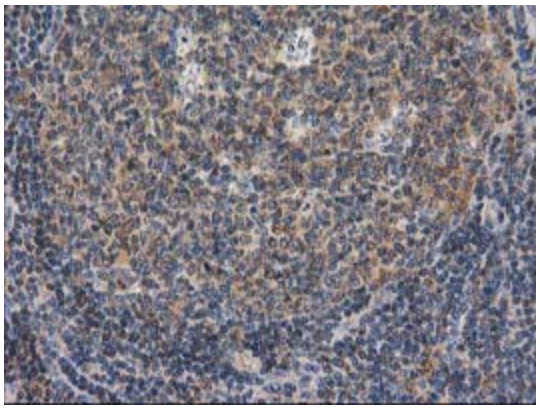
Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1F1
Applications:	FC, IHC, WB
Recommend 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 and 0.02% sodium azide.
Concentration:	1.2 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Predicted Protein Size:	53.5 kDa
Gene Name:	glucosylceramidase beta 3 (gene/pseudogene)
Database Link:	NP_066024 Entrez Gene 57733 Human
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

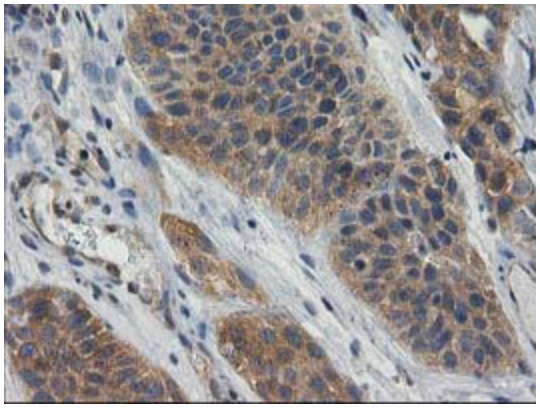
Product images:



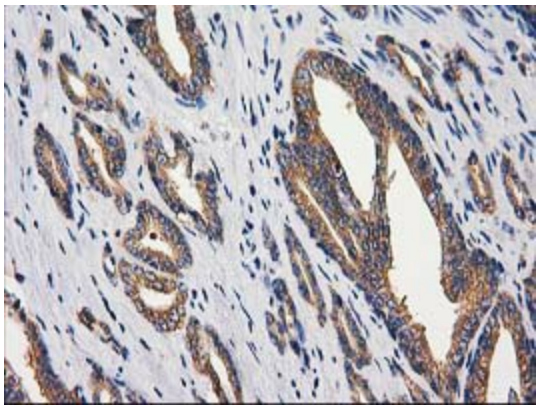
Immunohistochemical staining of paraffin-embedded Human lymphoma tissue using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA502602)



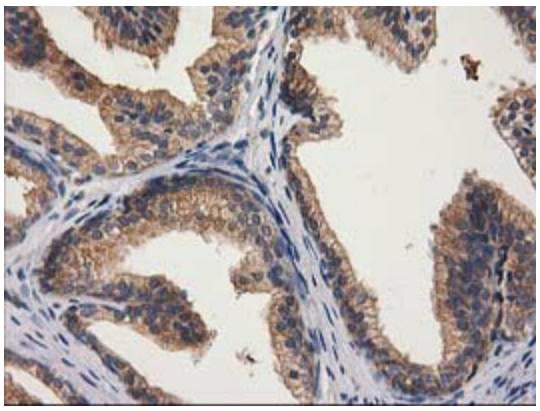
Immunohistochemical staining of paraffin-embedded Human lymph node tissue within the normal limits using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA502602)



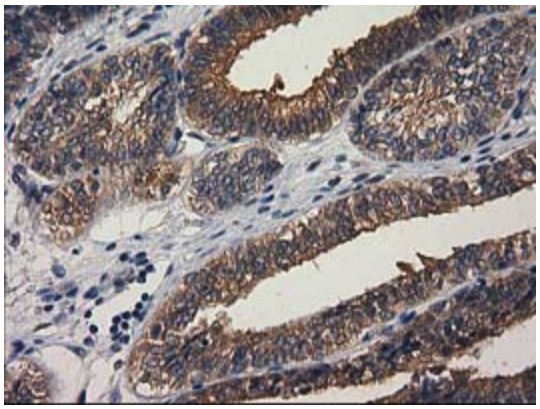
Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA502602)



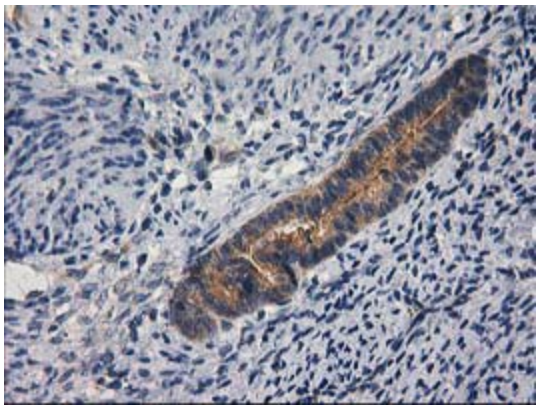
Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA502602)



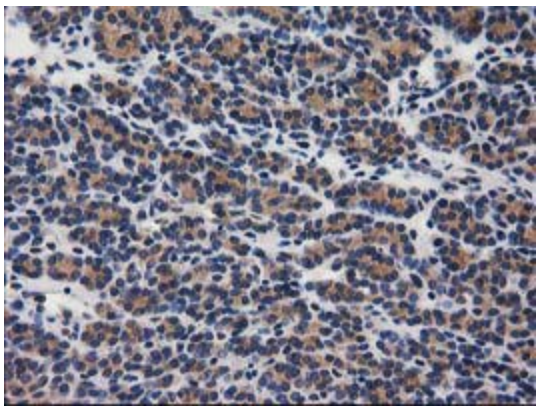
Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA502602)



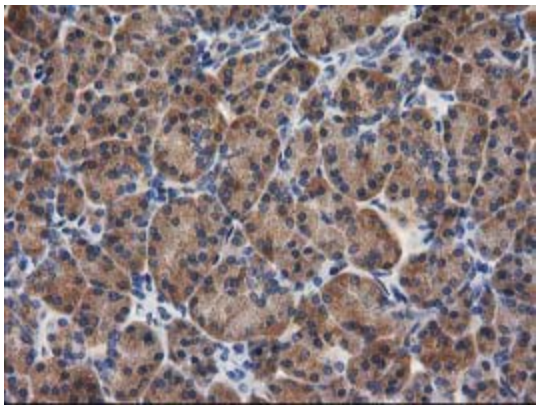
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA502602)



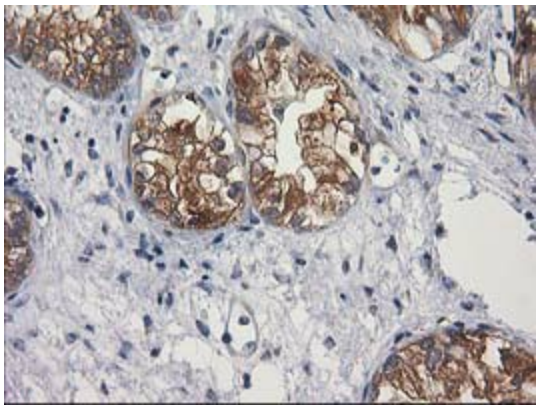
Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA502602)



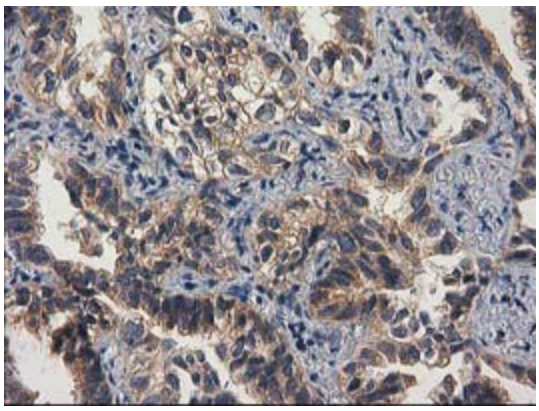
Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA502602)



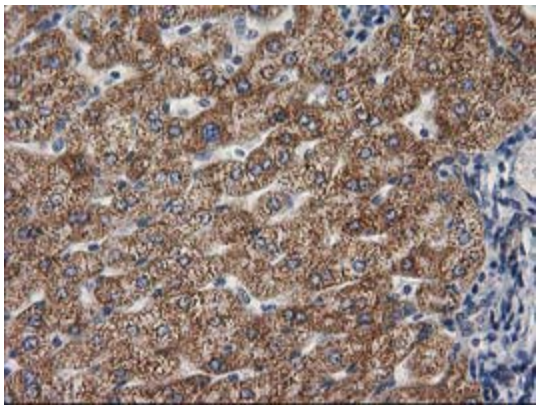
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA502602)



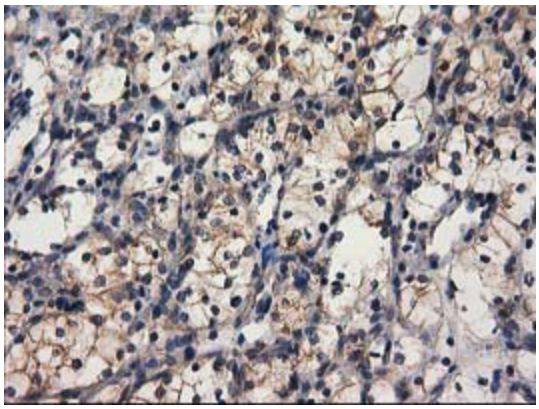
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA502602)



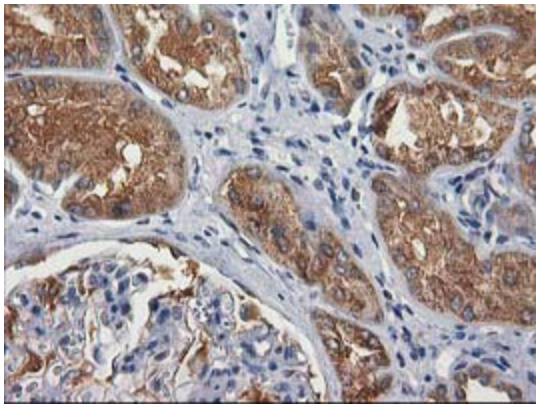
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA502602)



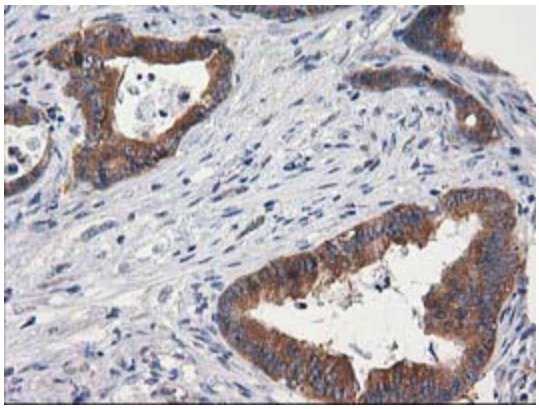
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA502602)



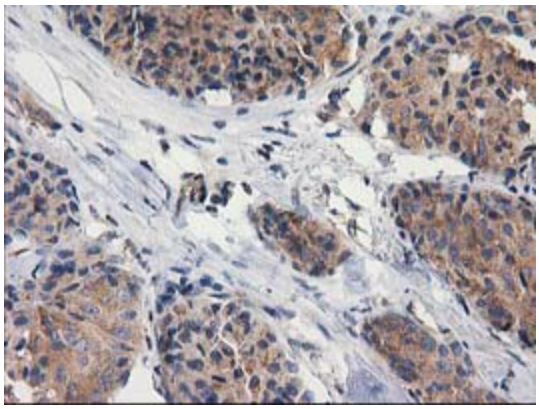
Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA502602)



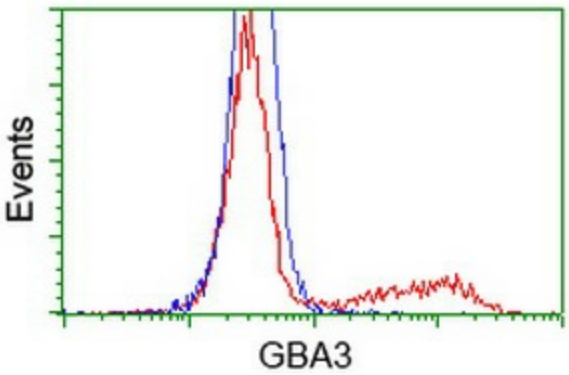
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA502602)



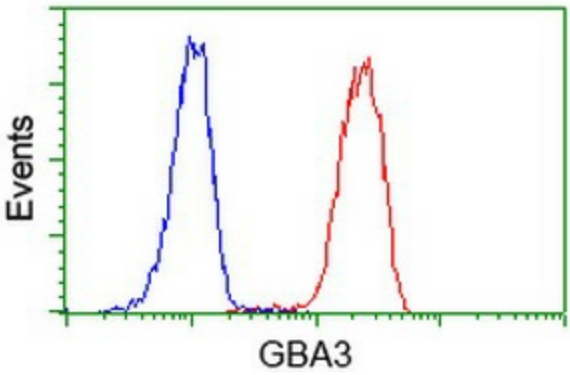
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA502602)



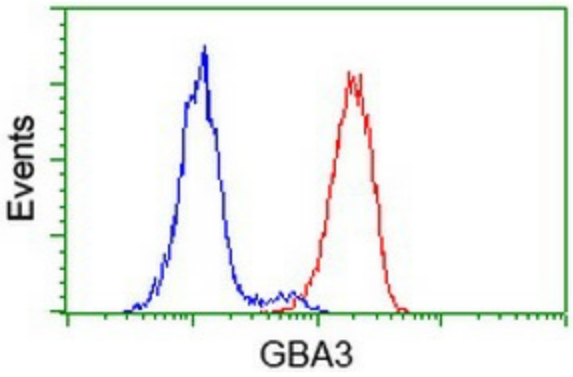
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-GBA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA502602)



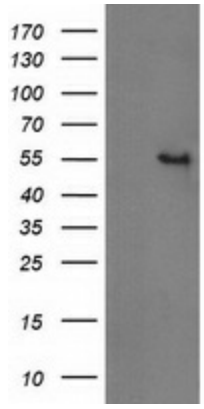
HEK293T cells transfected with either [RC211035] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-GBA3 antibody (TA502602), and then analyzed by flow cytometry.



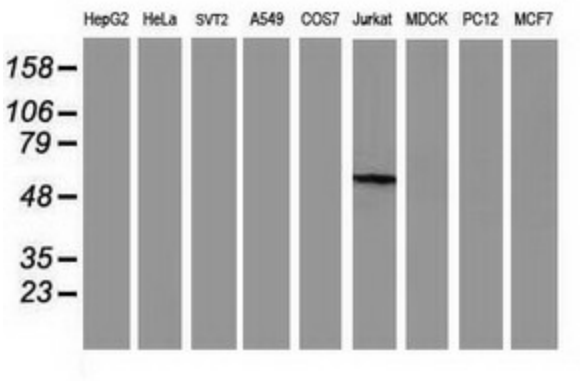
Flow cytometric Analysis of Jurkat cells, using anti-GBA3 antibody (TA502602), (Red), compared to a nonspecific negative control antibody ([TA50011]), (Blue).



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 (Left lane) or pCMV6-ENTRY GBA3 ([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. 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.