

Product datasheet for **CF502533**

GBA3 Mouse Monoclonal Antibody [Clone ID: OTI5G5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI5G5
Applications:	FC, IHC, WB
Recommended Dilution:	WB: 1:200 - 1:1000, IHC 1:150, FLOW 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
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:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
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:	NP_066024 Entrez Gene 57733 Human Q9H227



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Background:

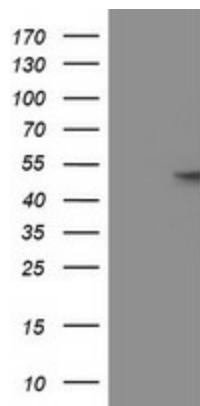
GBA3, or cytosolic beta-glucosidase (EC 3.2.1.21), is a predominantly liver enzyme that efficiently hydrolyzes beta-D-glucoside and beta-D-galactoside, but not any known physiologic beta-glycoside, suggesting that it may be involved in detoxification of plant glycosides (de Graaf et al., 2001 [PubMed 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:

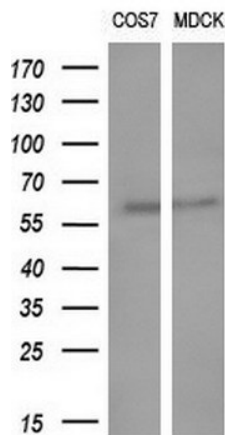
CBG; CBGL1; GLUC; KLRP

Protein Pathways:

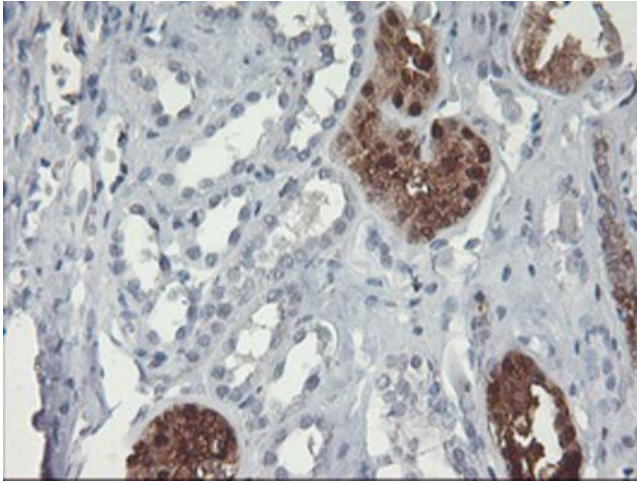
Cyanoamino acid metabolism, Starch and sucrose metabolism

Product images:


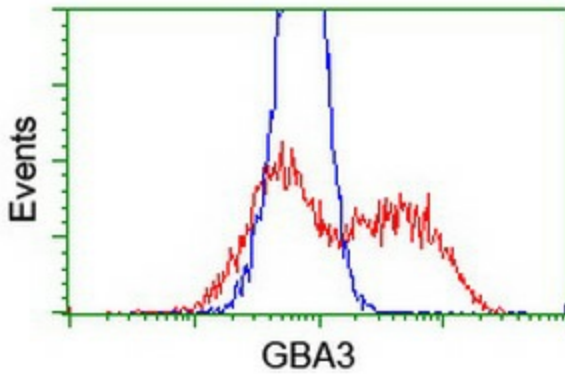
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GBA3 ([RC211035], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GBA3. Positive lysates [LY402815] (100ug) and [LC402815]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



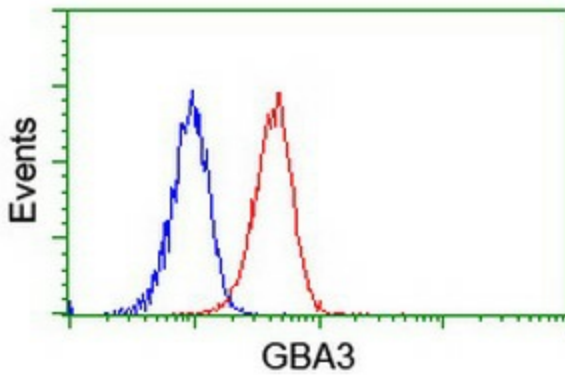
Western blot analysis of extracts (10ug) from 2 different cell lines by using anti-GBA3 monoclonal antibody (1:200).



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, [TA502533])



HEK293T cells transfected with either [RC211035] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-GBA3 antibody ([TA502533]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Jurkat cells, using anti-GBA3 antibody ([TA502533]), (Red), compared to a nonspecific negative control antibody, (Blue).