

## Product datasheet for **CF803473**

### GBA Mouse Monoclonal Antibody [Clone ID: OTI2C12]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2C12
Applications:	IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 40-315 of human GBA (NP_000148) 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:	55.5 kDa
Gene Name:	Homo sapiens glucosylceramidase beta (GBA), transcript variant 1, mRNA.
Database Link:	<a href="#">NP_000148</a> <a href="#">Entrez Gene 14466 Mouse</a> <a href="#">Entrez Gene 2629 Human</a> <a href="#">P04062</a>



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**Background:**

This gene encodes a lysosomal membrane protein that cleaves the beta-glucosidic linkage of glycosylceramide, an intermediate in glycolipid metabolism. Mutations in this gene cause Gaucher disease, a lysosomal storage disease characterized by an accumulation of glucocerebrosides. A related pseudogene is approximately 12 kb downstream of this gene on chromosome 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2010]

**Synonyms:**

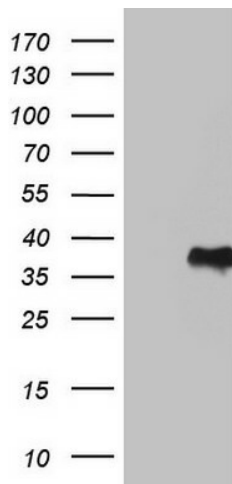
GBA1; GCB; GLUC

**Protein Families:**

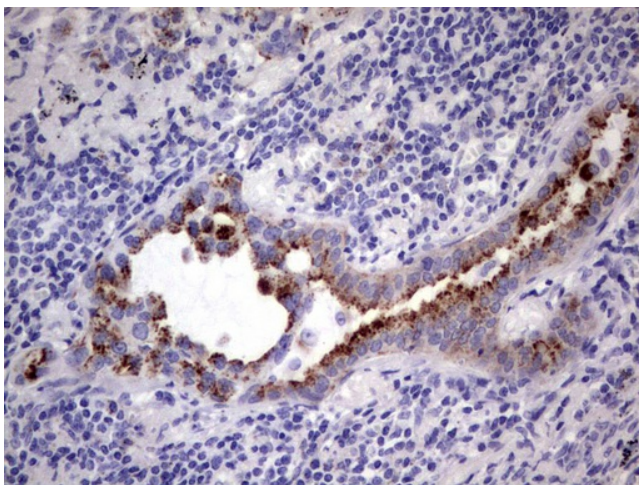
Druggable Genome

**Protein Pathways:**

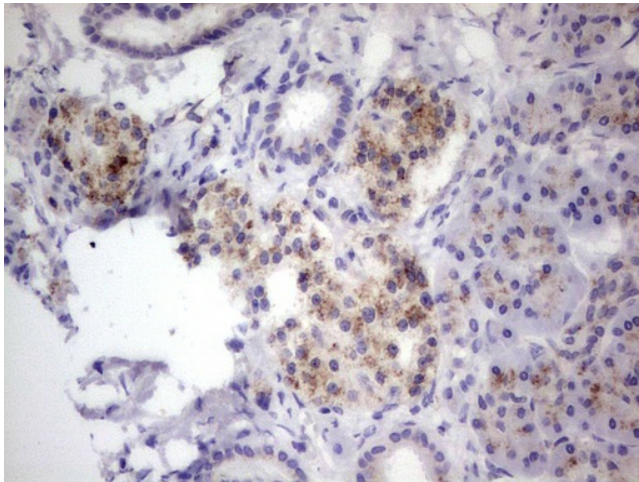
Lysosome, Metabolic pathways, Other glycan degradation, Sphingolipid metabolism

**Product images:**

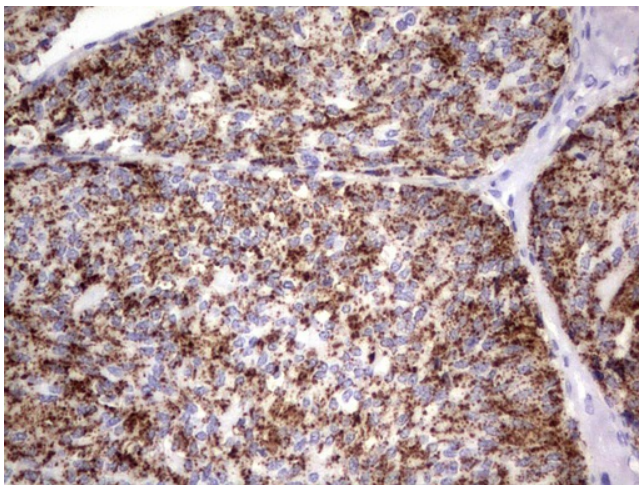
E.coli lysate (left lane) and E.coli lysate expressing human recombinant protein fragment corresponding to amino acids 40-315 of human GBA (NP\_000148) were separated by SDS-PAGE and immunoblotted with anti-GBA.



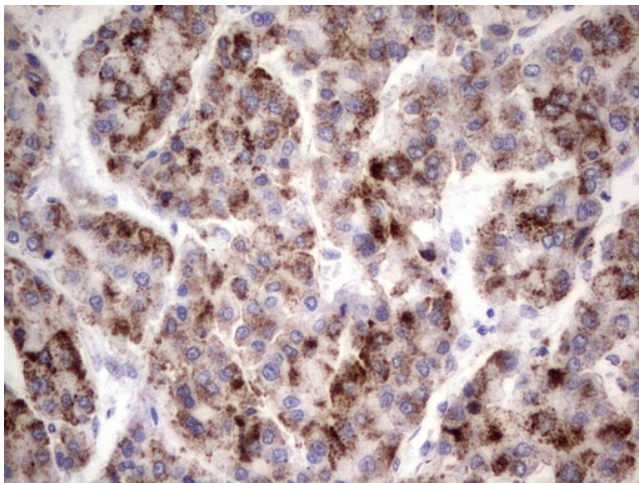
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-GBA mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA803473])



Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-GBA mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA803473])



Immunohistochemical staining of paraffin-embedded Human thyroid tissue within the normal limits using anti-GBA mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA803473])



Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-GBA mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA803473])