

Rabbit anti-Human GBA3 Monoclonal Antibody | anti-GBA3 antibody

Recombinant Anti-GBA3 Antibody, Rabbit Monoclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255431	Rabbit	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

GBA3; Monoclonal Antibody; Recombinant Anti-GBA3 Antibody; Rabbit Monoclonal; GBA3 Antibody; Rabbit MAb; glucosidase; beta; acid 3 (gene/pseudogene); Anti-CBG Antibody; Anti-CBGL1 Antibody; Anti-GBA3 Antibody; Anti-GLUC Antibody; Anti-KLRP Antibody; Anti-MGC104276 Antibody; Anti-MGC126878 Antibody; anti-GBA3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	008
Specificity	Human GBA3
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-GBA3 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human GBA3 protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human GBA3 (rh GBA3).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Confocal immunofluorescence analysis of Human GBA3 in MCF7 cells. Cells were fixed with 4% PFA, permeabilized with 1% Triton X-100 in PBS, blocked with 10% serum, and incubated with Rabbit anti-Human GBA3 monoclonal antibody (1:60). Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody, counterstained with Alexa Fluor 546-conjugated phallotoxins (red) and DAPI (blue). Positive staining was localized to cytoplasm.



FCM/FACS (Flow Cytometry)

Flow cytometric analysis of Human GBA3 expression on Jurkat cells. The cells were treated according to manufacturer's manual (BD Pharmingen), stained with purified anti-Human GBA3, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.

ADDITIONAL INFORMATION

Related Product Information for anti-GBA3 antibody	Cytosolic beta-glucosidase, also known as Cytosolic beta-glucosidase-like protein 1, GBA3, CBG and CBGL1 is a cytoplasm protein which belongs to theglycosyl hydrolase 1 family and Klotho subfamily. GBA3/CBGL1 is a glycosidase probably involved in the intestinal absorption and metabolism of dietary flavonoid glycosides. GBA3/CBGL1 is present in small intestine (at protein level). GBA3/CBGL1 is expressed in liver, small intestine, colon, spleen and kidney. GBA3/CBGL1 is down-regulated in renal cell carcinomas and hepatocellular carcinomas. GBA3/CBGL1 is able to hydrolyze a broad variety of glycosides including phytoestrogens, flavonols, flavones, flavanones and cyanogens. GBA3/CBGL1 possesses beta-glycosylceramidase activity and may be involved in a nonlysosomal catabolic pathway of glycosylceramide.
References	Yahata K., et al., (2000), Molecular cloning and expression of a novel klotho-related protein. J. Mol. Med. 78:389-394.de Graaf M., et al., (2001), Cloning and characterization of human liver cytosolic beta-glycosidase.Biochem. J. 356:907-910.Berrin J.-G., et al., (2002), Functional expression of human liver cytosolic beta-glucosidase in Pichia pastoris. Insights into its role in the metabolism of dietary glucosides.Eur. J. Biochem. 269:249-258.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13273313
NCBI GeneID	57733
NCBI Accession #	NP_066024.1
NCBI GenBank Nucleotide #	NM_020973.4
UniProt Accession #	Q9H227; Q32LY7; Q3MIH4; Q53GG8; Q6NSF4; Q8NHT8; Q9H3T4; Q9H4C6
Molecular Weight	18,265 Da
NCBI Official Full Name	cytosolic beta-glucosidase isoform a
NCBI Official Synonym Full Names	glucosylceramidase beta 3 (gene/pseudogene)
NCBI Official Symbol	GBA3
NCBI Official Synonym Symbols	CBG; GLUC; KLRP; CBGL1
NCBI Protein Information	cytosolic beta-glucosidase
UniProt Protein Name	Cytosolic beta-glucosidase
UniProt Gene Name	GBA3
UniProt Synonym Gene Names	CBG; CBGL1
UniProt Entry Name	GBA3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.