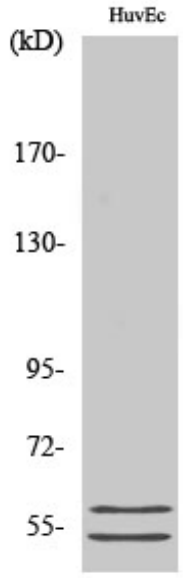
CBG Polyclonal Antibody

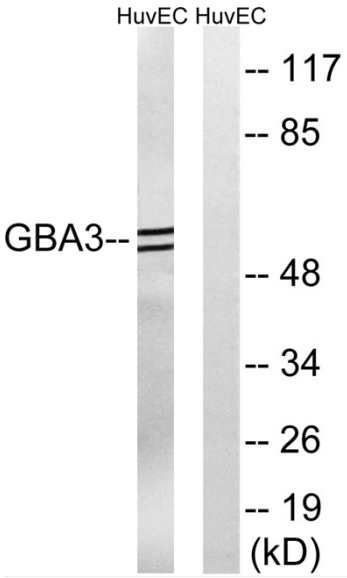
Catalog No	BYab-02532
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;ELISA
Gene Name	GBA3
Protein Name	Cytosolic beta-glucosidase
Immunogen	The antiserum was produced against synthesized peptide derived from human GBA3. AA range:291-340
Specificity	CBG Polyclonal Antibody detects endogenous levels of CBG protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	GBA3; CBG; CBGL1; Cytosolic beta-glucosidase; Cytosolic beta-glucosidase-like protein 1
Observed Band	54-58kD
Cell Pathway	Cytoplasm, cytosol .
Tissue Specificity	Present in small intestine (at protein level). Expressed in liver, small intestine, colon, spleen and kidney. Down-regulated in renal cell carcinomas and hepatocellular carcinomas.
Function	catalytic activity:Hydrolysis of terminal, non-reducing beta-D-glucosyl residues with release of beta-D-glucose.,enzyme regulation:Inhibited by 2,4-dinitrophenyl-2-fluoro-2-deoxy-beta-D-glucopyranoside and sodium taurocholate.,function:Glycosidase probably involved in the intestinal absorption and metabolism of dietary flavonoid glycosides. Able to hydrolyze a broad variety of glycosides including phytoestrogens, flavonols, flavones, flavanones and cyanogens.,PTM:The N-terminus is blocked.,similarity:Belongs to the glycosyl hydrolase 1 family.,similarity:Belongs to the glycosyl hydrolase 1 family. Klotho subfamily.,tissue specificity:Present in small intestine (at protein level). Expressed

	in liver, small intestine, colon, spleen and kidney. Down-regulated in renal cell carcinomas and hepatocellular carcinomas.,
Background	The protein encoded by this gene is an enzyme that can hydrolyze several types of glycosides. This gene is a polymorphic pseudogene, with the most common allele being the functional allele that encodes the full-length protein. Some individuals, as represented by the reference genome allele, contain a single nucleotide polymorphism that results in a premature stop codon in the coding region, and therefore this allele is pseudogenic due to the failure to produce a functional full-length protein. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Mar 2013],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

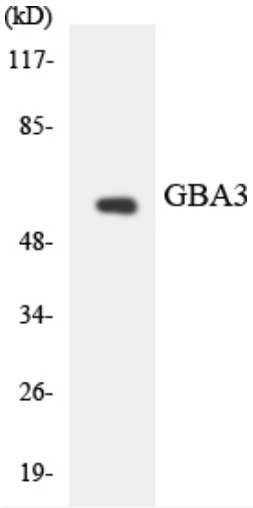
Products Images



Western Blot analysis of various cells using CBG Polyclonal Antibody diluted at 1:500



Western blot analysis of lysates from HUVEC cells, using GBA3 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HeLa cells using GBA3 antibody.