

Product Name: CBG Rabbit Polyclonal Antibody
Catalog #: APRab08036



Summary

Production Name	CBG Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	GBA3
Alternative Names	GBA3; CBG; CBGL1; Cytosolic beta-glucosidase; Cytosolic beta-glucosidase-like protein 1
Gene ID	57733.0
SwissProt ID	Q9H227.The antiserum was produced against synthesized peptide derived from human GBA3. AA range:291-340

Application

Dilution Ratio	WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.
Molecular Weight	54-58kD

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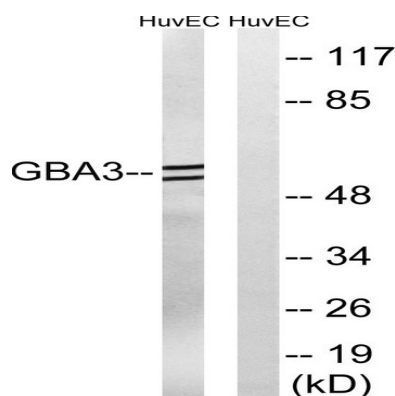
Background

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], 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.,

Research Area

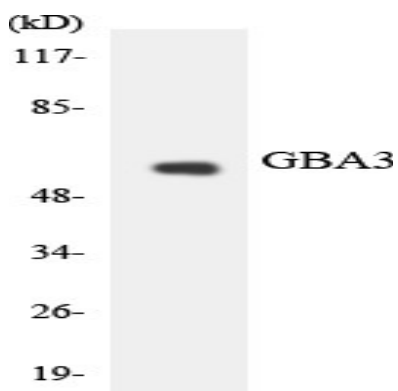
Cyanoamino acid metabolism; Starch and sucrose metabolism;

Image Data

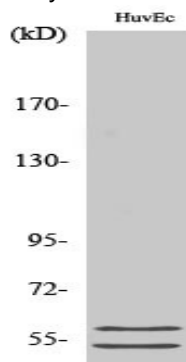


Western blot analysis of lysates from HUVEC cells, using GBA3 Antibody. The lane on the right is blocked with the synthesized peptide.

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



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

Note

For research use only.