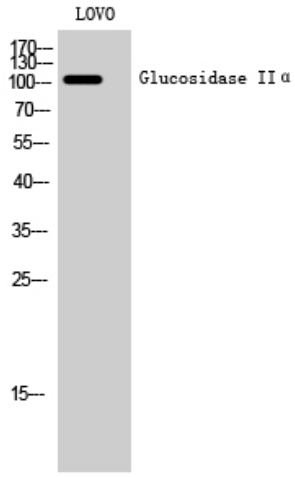
Glucosidase IIα Polyclonal Antibody

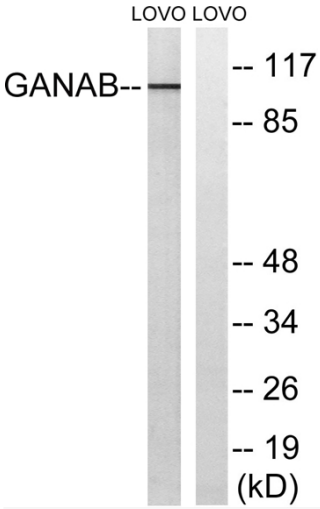
Catalog No	YP-Ab-02641
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;IHC;IF;ELISA
Gene Name	GANAB
Protein Name	Neutral alpha-glucosidase AB
Immunogen	The antiserum was produced against synthesized peptide derived from human GANAB. AA range:242-291
Specificity	Glucosidase IIα Polyclonal Antibody detects endogenous levels of Glucosidase IIα 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	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/5000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	GANAB; G2AN; KIAA0088; Neutral alpha-glucosidase AB; Alpha-glucosidase 2; Glucosidase II subunit alpha
Observed Band	107kD
Cell Pathway	Endoplasmic reticulum . Golgi apparatus . Melanosome . Identified by mass spectrometry in melanosome fractions from stage I to stage IV. .
Tissue Specificity	Detected in placenta (PubMed:3881423). Isoform 1 and isoform 2 are expressed in the kidney and liver (PubMed:27259053).
Function	catalytic activity:Hydrolysis of terminal (1->3)-alpha-D-glucosidic links in (1->3)-alpha-D-glucans.,function:Cleaves sequentially the 2 innermost alpha-1,3-linked glucose residues from the Glc(2)Man(9)GlcNAc(2) oligosaccharide precursor of immature glycoproteins.,pathway:Glycan metabolism; N-glycan metabolism.,similarity:Belongs to the glycosyl hydrolase 31 family.,subcellular location:Identified by mass spectrometry in melanosome fractions from stage I to stage IV.,subunit:Heterodimer of a catalytic alpha subunit (GANAB) and a beta subunit (PRKCSH). Binds glycosylated PTPRC.,tissue specificity:Detected in placenta.,
Background	This gene encodes the alpha subunit of glucosidase II and a member of the glycosyl hydrolase 31 family of proteins. The heterodimeric enzyme glucosidase II plays a role in protein folding and quality control by cleaving glucose residues from immature glycoproteins in the endoplasmic reticulum. Expression of the

	encoded protein is elevated in lung tumor tissue and in response to UV irradiation. Mutations in this gene cause autosomal-dominant polycystic kidney and liver disease. [provided by RefSeq, Jul 2016],
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.

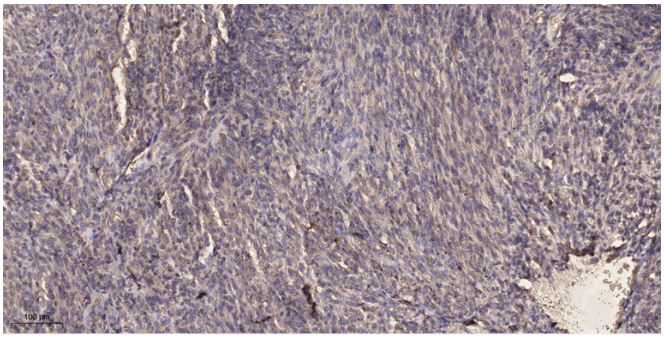
Products Images



Western Blot analysis of LOVO cells using Glucosidase IIα Polyclonal Antibody



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



Immunohistochemical analysis of paraffin-embedded human Colon cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).