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Rabbit Anti-GANAB/AP Conjugated antibody

SL6720R-AP

Product Name	Anti-GANAB/AP
Chinese Name	碱性磷酸酶（AP）标记的 α 葡萄糖苷酶 2 抗体
Alias	Glucosidase IIα; Alpha glucosidase II alpha subunit; Alpha-glucosidase 2; G2AN; GANAB; GANAB_HUMAN; Glu II; Glucosidase alpha neutral AB; Glucosidase II alpha; Glucosidase II subunit alpha; GluII; KIAA0088; Neutral alpha glucosidase AB; Neutral alpha glucosidase AB precursor; Neutral alpha-glucosidase AB.
Research Area	Tumour Cell biology Neurobiology Signal transduction
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse,Rat(predicted:Human,Pig,Cow,Horse,Rabbit,Sheep)
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	104kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human GANAB/alpha Glucosidase II
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**background:** Trimming of glucoses from N-linked core glycans on newly synthesized glycoproteins occurs sequentially through the action of Glucosidases I and II in the endoplasmic reticulum (ER). Glucosidase II is an ER-localized enzyme

that contains a and b subunits (Glucosidase IIa and Glucosidase IIb) which form a defined heterodimeric complex. Glucosidase IIa is the catalyitc core of the enzyme and can function independently of the b subunit. The sequence of Glucosidase IIb encodes protein rich in glutamic and aspartic acid with a putative ER retention signal (HDEL) at the C-terminus. The phosphorylated form of Glucosidase IIb is localized in the plasma membrane and is highly expressed in FGF-stimulated fibroblasts and epidermal carcinoma cells. Glucosidase IIb was first purified from a human carcinoma cell line as a potential substrate for protein kinase C. Through the HDEL signal at the C-terminus, Glucosidase IIb retains the complete complex in the ER.

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.

Subunit:
Heterodimer of a catalytic alpha subunit (GANAB) and a beta subunit (PRKCSH). Binds glycosylated PTPRC (By similarity).

Subcellular Location:
Endoplasmic reticulum. Golgi apparatus. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Tissue Specificity:
Detected in placenta.

Similarity:
Belongs to the glycosyl hydrolase 31 family.

Database links:

Entrez Gene: 23193 Human

Omim: 104160 Human

SwissProt: Q14697 Human

Unigene: 595071 Human

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.