

GANAB Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP5653a**Specification**

GANAB Antibody (N-term) Blocking peptide - Product Information

Primary Accession [O14697](#)
Other Accession [NP_938148.1](#)

GANAB Antibody (N-term) Blocking peptide - Additional Information

Gene ID 23193

Other Names

Neutral alpha-glucosidase AB, Alpha-glucosidase 2, Glucosidase II subunit alpha, GANAB, G2AN, KIAA0088

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GANAB Antibody (N-term) Blocking peptide - Protein Information

Name GANAB {ECO:0000303|PubMed:28375157, ECO:0000312|HGNC:HGNC:4138}

Function

Catalytic subunit of glucosidase II that cleaves sequentially the 2 innermost alpha-1,3-linked glucose residues from the Glc(2)Man(9)GlcNAc(2) oligosaccharide precursor of immature glycoproteins (PubMed:10929008). Required for PKD1/Polycystin-1 and PKD2/Polycystin-2 maturation and localization to the cell surface and cilia (PubMed:27259053).

Cellular Location

Endoplasmic reticulum. Golgi apparatus {ECO:0000250|UniProtKB:P79403}. Melanosome.
Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV

Tissue Location

Detected in placenta (PubMed:3881423). Isoform 1 and isoform 2 are expressed in the kidney and liver (PubMed:27259053)

GANAB Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

GANAB Antibody (N-term) Blocking peptide - Images

GANAB Antibody (N-term) Blocking peptide - Background

Glucosidase II is an endoplasmic reticulum localized enzyme that has an important function in the folding and maturation of glycoproteins. Glucosidase II is composed of two soluble proteins: a catalytic alpha-subunit and a beta-subunit of unknown function, both of which are highly conserved in mammals.

GANAB Antibody (N-term) Blocking peptide - References

Arendt, C.W., et al. Glycobiology 10(5):487-492(2000)Arendt, C.W., et al. J. Biol. Chem. 272(20):13117-13125(1997)Trombetta, E.S., et al. J. Biol. Chem. 271(44):27509-27516(1996)Martiniuk, F., et al. J. Biol. Chem. 260(2):1238-1242(1985)Martiniuk, F., et al. Cytogenet. Cell Genet. 35(2):110-116(1983)