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GBAS Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6752c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	O75323
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB20165
Calculated MW	33743
Antigen Region	130-159

Additional Information

Gene ID	2631
Other Names	Protein NipSnap homolog 2, NipSnap2, Glioblastoma-amplified sequence, GBAS, NIPSNAP2
Target/Specificity	This GBAS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 130-159 amino acids from the Central region of human GBAS.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GBAS Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NIPSNAP2 {ECO:0000303|PubMed:30982665, ECO:0000312|HGNC:HGNC:4179}
Function	Protein involved in mitophagy by facilitating recruitment of the autophagy machinery required for clearance of damaged mitochondria

(PubMed:30982665). Accumulates on the mitochondria surface in response to mitochondrial depolarization and acts as a 'eat me' signal by recruiting proteins involved in selective autophagy, such as autophagy receptors (CALCOCO2/NDP52, NBR1, SQSTM1/p62, TAX1BP1 and WDFY3/ALFY) and ATG8 family proteins (MAP1LC3A, MAP1LC3B, MAP1LC3C, GABARAP, GABARAPL1 and GABARAPL2) (PubMed:30982665).

Cellular Location Mitochondrion matrix

Tissue Location Widely expressed (PubMed:9615231). Most abundant in heart and skeletal muscle (PubMed:9615231)

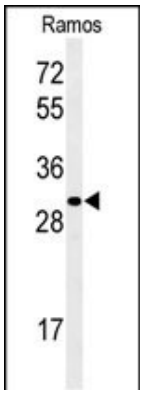
Background

Chromosomal region 7p12, which contains GBAS, is amplified in approximately 40% of glioblastomas, the most common and malignant form of central nervous system tumor.The predicted 286-amino acid protein contains a signal peptide, a transmembrane domain, and 2 tyrosine phosphorylation sites. The GBAS transcript is expressed most abundantly in heart and skeletal muscle. GBAS protein might be involved in vesicular transport.

References

Simpson, J.C., et al. EMBO Rep. 1(3):287-292(2000)
Seroussi, E., et al. Gene 212(1):13-20(1998)
Wang, X.Y., et al. Genomics 49(3):448-451(1998)

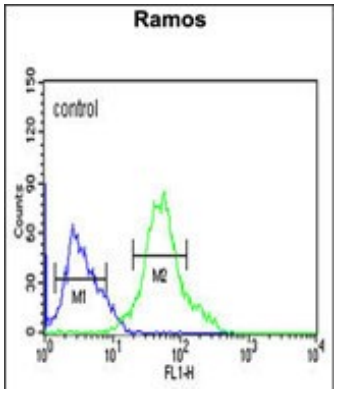
Images



Western blot analysis of GBAS Antibody (Center) (Cat. #AP6752c) in Ramos cell line lysates (35ug/lane).GBAS (arrow) was detected using the purified Pab.

GBAS Antibody (Center) (Cat. #AP6752c) IHC analysis in formalin fixed and paraffin embedded skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the GBAS Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

GBAS Antibody (Center) (Cat. #AP6752c) flow cytometric analysis of Ramos cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated



goat-anti-rabbit secondary antibodies were used for the analysis.

Citations

- NIPSNAP1 and NIPSNAP2 Act as