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GBAS Rabbit pAb

Catalog # AP98840

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	O75323
Other Accession	O75323
Predicted	Rat, Human, Mouse, Rabbit, Chicken, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33743
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GBAS
Epitope Specificity	21-120/286
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the NipSnap family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	NIPSNAP2 is a 286 amino acid protein that is abundantly expressed in heart and skeletal muscle. Belonging to the NIPSNAP family, NIPSNAP2 may be involved in vesicular transport. NIPSNAP2 contains a signal peptide, a transmembrane domain and two tyrosine phosphorylation sites. NIPSNAP2 is encoded by a gene mapping to human chromosome 7p11.2. Chromosomal region 7p12 is amplified in approximately 40% of glioblastomas, the most common and malignant form of central nervous system tumor. Human chromosome 7 houses over 1,000 genes and comprises nearly 5% of the human genome. Defects in some of the genes localized to chromosome 7 have been linked to Osteogenesis imperfecta, Williams-Beuren syndrome, Pendred syndrome, Lissencephaly, Citrullinemia and Shwachman-Diamond syndrome.

Additional Information

Gene ID	2631
Other Names	NIPS2_HUMAN; NIPSNAP2; Glioblastoma-amplified sequence; GBAS; NIPS2_MOUSE; nipsnap homolog 2; glioblastoma amplified sequence
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.