

KIAA1161 Rabbit pAb

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Catalog # AP56503

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q6NSJ0
Reactivity	Rat
Predicted	Dog, Human, Mouse, Rabbit, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	81087
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human KIAA1161
Epitope Specificity	631-714/714
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	KIAA1161 is a 714 amino acid protein that belongs to the glycosyl hydrolase 31 family and functions as a putative glucosidase. This single-pass type II membrane protein is post-translationally phosphorylated at serine 44 and glycosylated at amino acid positions 240 and 250. The gene encoding KIAA1161 maps to human chromosome 9, which consists of about 145 million bases, comprises approximately 4% of the human genome and encodes nearly 900 genes. Considered to play a role in gender determination, deletion of the distal portion of 9p can lead to development of male to female sex reversal, the phenotype of a female with a male X,Y genotype. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, is associated with the chromosome 9 gene encoding endoglin protein, ENG. Familial dysautonomia is also associated with chromosome 9 though through the gene IKBKAP. Notably, chromosome 9 encompasses the largest interferon family gene cluster. Chromosome 9 is partnered with chromosome 22 in the translocation leading to the aberrant production of BCR-ABL fusion protein often found in leukemias.

Additional Information

Gene ID	57462
Other Names	Alpha-galactosidase MYORG, 3.2.1.22, Myogenesis regulating glycosidase {ECO:0000312 HGNC:HGNC:19918}, Nuclear envelope transmembrane protein 37, MYORG (HGNC:19918)

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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.

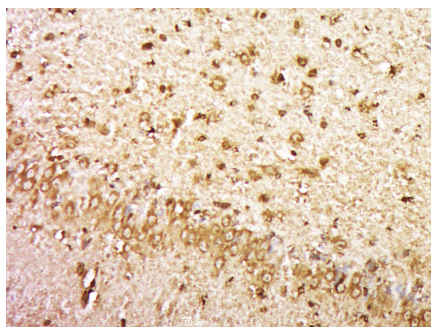
Protein Information

Name	MYORG (HGNC:19918)
Function	Alpha-galactosidase with unusual specificity for the Gal- alpha1,4-Glc structure, whose in vivo substrate is still unknown (PubMed: 36129849). Promotes myogenesis by activating AKT signaling through the maturation and secretion of IGF2 (By similarity).
Cellular Location	Nucleus membrane {ECO:0000250 UniProtKB:Q69ZQ1}; Single-pass type II membrane protein {ECO:0000250 UniProtKB:Q69ZQ1} Endoplasmic reticulum membrane; Single-pass type II membrane protein {ECO:0000250 UniProtKB:Q69ZQ1}. Note=Only a minor fraction is present in the peripheral endoplasmic reticulum {ECO:0000250 UniProtKB:Q69ZQ1}

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (KIAA1161) Polyclonal Antibody, Unconjugated (AP56503) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

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