10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DNAJC6 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9982A

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	O75061
Other Accession	Q80TZ3
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24673
Calculated MW	99997
Antigen Region	254-281

Additional Information

Gene ID	9829
Other Names	Putative tyrosine-protein phosphatase auxilin, DnaJ homolog subfamily C member 6, DNAJC6, KIAA0473
Target/Specificity	This DNAJC6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 254-281 amino acids from the Central region of human DNAJC6.
Dilution	WB~~1:2000 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	DNAJC6 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DNAJC6 (HGNC:15469)
Function	May act as a protein phosphatase and/or a lipid phosphatase.

	Co-chaperone that recruits HSPA8/HSC70 to clathrin-coated vesicles (CCVs) and promotes the ATP-dependent dissociation of clathrin from CCVs and participates in clathrin-mediated endocytosis of synaptic vesicles and their recycling and also in intracellular trafficking (PubMed:18489706). Firstly, binds tightly to the clathrin cages, at a ratio of one DNAJC6 per clathrin triskelion. The HSPA8:ATP complex then binds to the clathrin-auxilin cage, initially at a ratio of one HSPA8 per triskelion leading to ATP hydrolysis stimulation and causing a conformational change in the HSPA8. This cycle is repeated three times to drive to a complex containing the clathrin-auxilin cage associated to three HSPA8:ADP complex. The ATP hydrolysis of the third HSPA8:ATP complex leads to a concerted dismantling of the cage into component triskelia. Then, dissociates from the released triskelia and be recycled to initiate another cycle of HSPA8's recruitment. Also acts during the early steps of clathrin-coated vesicle (CCV) formation through its interaction with the GTP bound form of DNM1 (By similarity).
Cellular Location	Cytoplasmic vesicle, clathrin-coated vesicle {ECO:0000250|UniProtKB:Q27974}. Note=Appears on coated vesicles in successive transient bursts, immediately after the vesicle release from the plasma membrane. Recruitment to clathrin-coated vesicles depends on temporal variations in phosphoinositide composition of clathrin-coated vesicles. {ECO:0000250|UniProtKB:Q27974}
Tissue Location	Expressed in various brain regions, including cerebellum, corpus callosum, cortex, striatum, brainstem, pons, putamen, spinal cord and substantia nigra. Very low expression in non- neural tissues such as leukocytes, liver, adipose tissue, skeletal muscle and bone marrow.

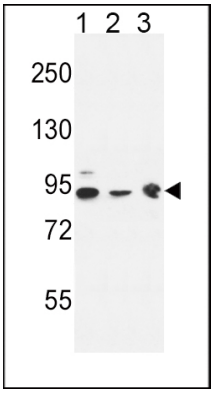
Background

DNAJC6 belongs to the evolutionarily conserved DNAJ/HSP40 family of proteins, which regulate molecular chaperone activity by stimulating ATPase activity. DNAJ proteins may have up to 3 distinct domains: a conserved 70-amino acid J domain, usually at the N terminus, a glycine/phenylalanine (G/F)-rich region, and a cysteine-rich domain containing 4 motifs resembling a zinc finger domain

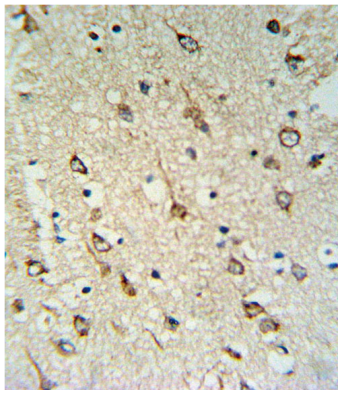
References

Yoshida, T., et al. Int. J. Mol. Med. 25(4):649-656(2010)
Oguri, M., et al. Am. J. Hypertens. 23(1):70-77(2010)
Martins-de-Souza, D., et al. Eur Arch Psychiatry Clin Neurosci 259(3):151-163(2009)
Hirst, J., et al. Traffic 9(8):1354-1371(2008)

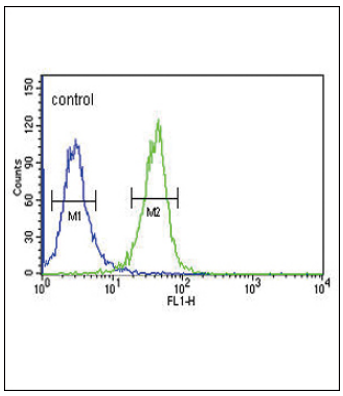
Images



DNAJC6 Antibody (Center) (Cat. #AP9982a) western blot analysis in K562(lane 1),HL-60 cell line(lane 2) and mouse brain tissue(lane 3) lysates (35ug/lane).This demonstrates the DNAJC6 antibody detected the DNAJC6 protein (arrow).



DNAJC6 Antibody (Center) (Cat. #AP9982a) IHC analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the DNAJC6 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



DNAJC6 Antibody (Center) (Cat. #AP9982a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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