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DNAJB6 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12493c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	O75190
Other Accession	NP_490647.1, NP_005485.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB31102
Calculated MW	36087
Antigen Region	218-247

Additional Information

Gene ID	10049
Other Names	DnaJ homolog subfamily B member 6, HHDJ1, Heat shock protein J2, HSJ-2, MRJ, MSJ-1, DNAJB6, HSJ2, MRJ, MSJ1
Target/Specificity	This DNAJB6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 218-247 amino acids from the Central region of human DNAJB6.
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	DNAJB6 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DNAJB6
Synonyms	HSJ2, MRJ, MSJ1

Function	Has a stimulatory effect on the ATPase activity of HSP70 in a dose-dependent and time-dependent manner and hence acts as a co-chaperone of HSP70 (PubMed:10954706, PubMed:28233300). Plays an indispensable role in the organization of KRT8/KRT18 filaments (PubMed:10954706). Acts as an endogenous molecular chaperone for neuronal proteins including huntingtin (PubMed:11896048, PubMed:22366786). Suppresses aggregation and toxicity of polyglutamine-containing, aggregation-prone proteins (PubMed:20159555, PubMed:22366786). Also reduces cellular toxicity and caspase-3 activity (PubMed:11896048).
Cellular Location	Cytoplasm, perinuclear region. Nucleus Cytoplasm, myofibril, sarcomere, Z line
Tissue Location	Widely expressed. Highest levels in testis and brain, and lower levels in heart, spleen, intestine, ovary, placenta, lung, kidney, pancreas, thymus, prostate, skeletal muscle, liver and leukocytes. In testis, expressed in germ cells in the earlier stages of differentiation pathway as well as in spermatids. In brain, expressed at a higher level in hippocampus and thalamus and a lower level in amygdala, substantia nigra, corpus callosum and caudate nucleus

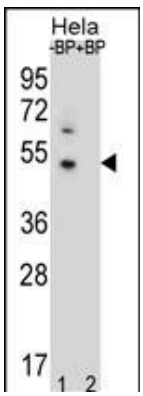
Background

This gene encodes a member of the DNAJ protein family. DNAJ family members are characterized by a highly conserved amino acid stretch called the 'J-domain' and function as one of the two major classes of molecular chaperones involved in a wide range of cellular events, such as protein folding and oligomeric protein complex assembly. This family member may also play a role in polyglutamine aggregation in specific neurons. Alternative splicing of this gene results in multiple transcript variants; however, not all variants have been fully described.

References

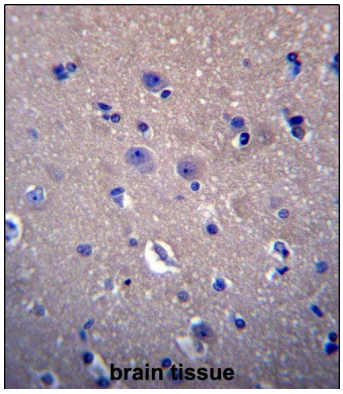
Mitra, A., et al. J. Biol. Chem. 285(32):24686-24694(2010)
Edo De Bock, C., et al. Int. J. Oncol. 36(5):1155-1163(2010)
Hageman, J., et al. Mol. Cell 37(3):355-369(2010)
Lowe, J.K., et al. PLoS Genet. 5 (2), E1000365 (2009) :
Dey, S., et al. Mol. Cell. Biochem. 322 (1-2), 137-142 (2009) :

Images

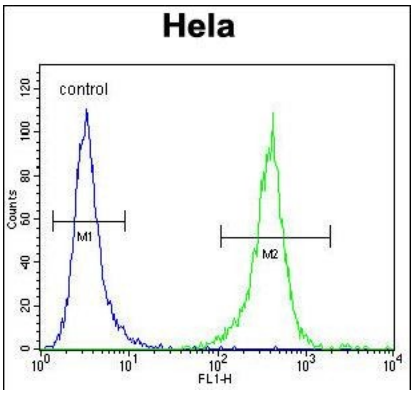


Western blot analysis of DNAJB6 Antibody (Center) Pab (Cat. #AP12493c) pre-incubated without(lane 1) and with(lane 2) blocking peptide in Hela cell line lysate. DNAJB6 Antibody (Center) (arrow) was detected using the purified Pab.

DNAJB6 Antibody (Center) (Cat. #AP12493c)immunohistochemistry 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 DNAJB6 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



DNAJB6 Antibody (Center) (Cat. #AP12493c) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.