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DNAJB2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18931a

Product Information

Application	WB, E
Primary Accession	P25686
Other Accession	Q9QYI5, NP_006727.2
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32153
Calculated MW	35580
Antigen Region	42-71

Additional Information

Gene ID	3300
Other Names	DnaJ homolog subfamily B member 2, DnaJ protein homolog 1, Heat shock 40 kDa protein 3, Heat shock protein J1, HSJ-1, DNAJB2, HSJ1, HSPF3
Target/Specificity	This DNAJB2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 42-71 amino acids from the N-terminal region of human DNAJB2.
Dilution	WB~~1:1000 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	DNAJB2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DNAJB2 (HGNC:5228)
Function	Functions as a co-chaperone, regulating the substrate binding and activating the ATPase activity of chaperones of the HSP70/heat shock protein 70 family

	(PubMed:22219199, PubMed:7957263). In parallel, also contributes to the ubiquitin-dependent proteasomal degradation of misfolded proteins (PubMed:15936278, PubMed:21625540). Thereby, may regulate the aggregation and promote the functional recovery of misfolded proteins like HTT, MC4R, PRKN, RHO and SOD1 and be crucial for many biological processes (PubMed:12754272, PubMed:20889486, PubMed:21719532, PubMed:22396390, PubMed:24023695). Isoform 1 which is localized to the endoplasmic reticulum membranes may specifically function in ER-associated protein degradation of misfolded proteins (PubMed:15936278).
Cellular Location	[Isoform 2]: Cytoplasm. Nucleus
Tissue Location	More abundantly expressed in neocortex, cerebellum, spinal cord and retina where it is expressed by neuronal cells (at protein level) (PubMed:12754272, PubMed:1599432). Detected at much lower level in non-neuronal tissues including kidney, lung, heart, skeletal muscle, spleen and testis (at protein level) (PubMed:12754272, PubMed:1599432). Isoform 1 is more abundant in neocortex and cerebellum compared to isoform 2 (at protein level) (PubMed:12754272)

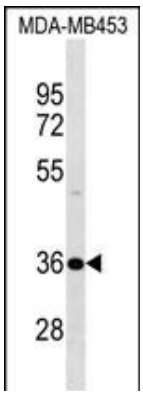
Background

DNAJB2 is involved in heat shock protein and unfolded protein binding.

References

Claeys, K.G., et al. Am. J. Pathol. 176(6):2901-2910(2010)
Starr, J.M., et al. Mech. Ageing Dev. 129(12):745-751(2008)
Mahoney, D.J., et al. Am. J. Physiol. Regul. Integr. Comp. Physiol. 294 (6), R1901-R1910 (2008) :
Adaimy, L., et al. Am. J. Hum. Genet. 81(4):821-828(2007)
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Images



DNAJB2 Antibody (N-term) (Cat. #AP18931a) western blot analysis in MDA-MB453 cell line lysates (35ug/lane).This demonstrates the DNAJB2 antibody detected the DNAJB2 protein (arrow).

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