

DNAJB12 Antibody(N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP19585a

Product Information

Application	WB, E
Primary Accession	Q9NXW2
Other Accession	Q58DR2
Reactivity	Human
Predicted	Bovine, Mouse, Rat, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32908
Calculated MW	41860
Antigen Region	7-36

Additional Information

Gene ID	54788
Other Names	DnaJ homolog subfamily B member 12, DNAJB12
Target/Specificity	This DNAJB12 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 7-36 amino acids from the N-terminal region of human DNAJB12.
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	DNAJB12 Antibody(N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DNAJB12 {ECO:0000303 PubMed:21150129, ECO:0000312 HGNC:HGNC:14891}
Function	Acts as a co-chaperone with HSPA8/Hsc70; required to promote protein folding and trafficking, prevent aggregation of client proteins, and promote

unfolded proteins to endoplasmic reticulum-associated degradation (ERAD) pathway (PubMed:[21148293](#), PubMed:[21150129](#)). Acts by determining HSPA8/Hsc70's ATPase and polypeptide-binding activities (PubMed:[21148293](#)). Can also act independently of HSPA8/Hsc70: together with DNAJB14, acts as a chaperone that promotes maturation of potassium channels KCND2 and KCNH2 by stabilizing nascent channel subunits and assembling them into tetramers (PubMed:[27916661](#)). While stabilization of nascent channel proteins is dependent on HSPA8/Hsc70, the process of oligomerization of channel subunits is independent of HSPA8/Hsc70 (PubMed:[27916661](#)). When overexpressed, forms membranous structures together with DNAJB14 and HSPA8/Hsc70 within the nucleus; the role of these structures, named DJANGOs, is still unclear (PubMed:[24732912](#)).

Cellular Location

Endoplasmic reticulum membrane; Single-pass membrane protein. Nucleus membrane; Single-pass membrane protein. Note=Localizes to the endoplasmic reticulum membrane (PubMed:21148293, PubMed:21150129, PubMed:24732912, PubMed:27916661) When overexpressed, forms membranous structures in the nucleus (PubMed:24732912).

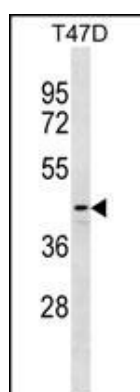
Background

DNAJB12 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 (Ohtsuka and Hata, 2000 [PubMed 11147971]).[supplied by OMIM].

References

Lamesch, P., et al. Genomics 89(3):307-315(2007)
Ohtsuka, K., et al. Cell Stress Chaperones 5(2):98-112(2000)

Images



DNAJB12 Antibody (N-term) (Cat. #AP19585a) western blot analysis in T47D cell line lysates (35ug/lane). This demonstrates the DNAJB12 antibody detected the DNAJB12 protein (arrow).

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