

**DNAJB12 Antibody(N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP19585a****Specification**

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**DNAJB12 Antibody(N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q9NXW2</a>
Other Accession	<a href="#">Q58DR2</a>
Reactivity	Human
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	41860
Antigen Region	7-36

**DNAJB12 Antibody(N-term) - 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

**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.

**DNAJB12 Antibody(N-term) - 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:[21150129](#), PubMed:[21148293](#)). 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

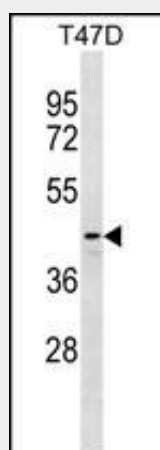
Endoplasmic reticulum membrane; Single-pass membrane protein. Nucleus membrane; Single-pass membrane protein. Note=Localizes to the endoplasmic reticulum membrane (PubMed:21150129, PubMed:21148293, PubMed:24732912, PubMed:27916661) When overexpressed, forms membranous structures in the nucleus (PubMed:24732912).

#### DNAJB12 Antibody(N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### DNAJB12 Antibody(N-term) - 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).

#### DNAJB12 Antibody(N-term) - 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].

#### **DNAJB12 Antibody(N-term) - References**

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