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DNAJB11 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12621a

Product Information

Application	IHC-P, WB, E
Primary Accession	Q9UBS4
Other Accession	Q6TUG0, Q99KV1, Q3ZBA6, NP_057390.1
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32154
Calculated MW	40514
Antigen Region	63-92

Additional Information

Gene ID	51726
Other Names	DnaJ homolog subfamily B member 11, APOBEC1-binding protein 2, ABBP-2, DnaJ protein homolog 9, ER-associated DNAJ, ER-associated Hsp40 co-chaperone, Endoplasmic reticulum DNA J domain-containing protein 3, ER-resident protein ERdj3, ERdj3, ERj3p, HEDJ, Human DnaJ protein 9, hDj-9, PWP1-interacting protein 4, DNAJB11, EDJ, ERJ3, HDJ9
Target/Specificity	This DNAJB11 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 63-92 amino acids from the N-terminal region of human DNAJB11.
Dilution	IHC-P~~1:100~500 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	DNAJB11 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DNAJB11

Synonyms	EDJ, ERJ3, HDJ9
Function	As a co-chaperone for HSPA5 it is required for proper folding, trafficking or degradation of proteins (PubMed:10827079, PubMed:15525676, PubMed:29706351). Binds directly to both unfolded proteins that are substrates for ERAD and nascent unfolded peptide chains, but dissociates from the HSPA5-unfolded protein complex before folding is completed (PubMed:15525676). May help recruiting HSPA5 and other chaperones to the substrate. Stimulates HSPA5 ATPase activity (PubMed:10827079). It is necessary for maturation and correct trafficking of PKD1 (PubMed:29706351).
Cellular Location	Endoplasmic reticulum lumen Note=Associated with the ER membrane in a C-terminally epitope-tagged construct
Tissue Location	Widely expressed.

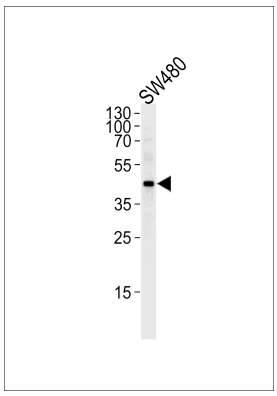
Background

DNAJB11 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 C-terminal cysteine-rich region (Ohtsuka and Hata, 2000 [PubMed 11147971]).

References

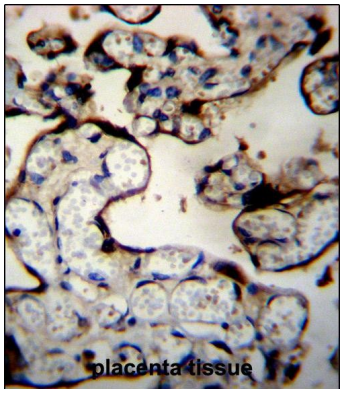
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Wen, K.W., et al. Oncogene 29(24):3532-3544(2010)
Bernal-Bayard, J., et al. J. Biol. Chem. 285(21):16360-16368(2010)
Vembar, S.S., et al. J. Biol. Chem. 284(47):32462-32471(2009)
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)

Images



Western blot analysis of lysate from SW480 cell line,using DNAJB11 Antibody (N-term)(Cat. #AP12621a).AP12621a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysate at 35ug per lane.

DNAJB11 Antibody (N-term) (Cat. #AP12621a)immunohistochemistry analysis in formalin fixed and paraffin embedded human placenta tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of DNAJB11 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



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