Product Name: ERdj3 Rabbit Polyclonal Antibody
Catalog #: APRab10584

Summary

Production Name	ERdj3 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC,WB,
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	DNAJB11
Alternative Names	DNAJB11; EDJ; ERJ3; HDJ9; PSEC0121; DnaJ homolog subfamily B member 11; APOBEC1-binding protein 2; ABBP-2; DnaJ protein homolog 9; ER-associated DNAJ; ER-associated Hsp40 co-chaperone; ER-associated dnaJ protein 3; ERdj3; ERj3p; HEDJ; Human
Gene ID	51726.0
SwissProt ID	Q9UBS4.The antiserum was produced against synthesized peptide derived from human DNAJB11. AA range:31-80

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000..
Molecular Weight	40kD

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Background

This gene encodes a soluble glycoprotein of the endoplasmic reticulum (ER) lumen that functions as a co-chaperone of binding immunoglobulin protein, a 70 kilodalton heat shock protein chaperone required for the proper folding and assembly of proteins in the ER. The encoded protein contains a highly conserved J domain of about 70 amino acids with a characteristic His-Pro-Asp (HPD) motif and may regulate the activity of binding immunoglobulin protein by stimulating ATPase activity. [provided by RefSeq, Mar 2014],caution:PubMed:11584023 reported a cytosolic, as well as nuclear subcellular location. This result was obtained using an N-terminally GFP-tagged construct which most probably affected signal peptide-driven targeting to the ER. As a consequence, the in vivo revelance of the observed interaction with APOBEC1, a nuclear protein, is dubious. This holds true for the interaction with PWP1.,function:Serves as a co-chaperone for HSPA5. 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. May help recruiting HSPA5 and other chaperones to the substrate. Stimulates HSPA5 ATPase activity.,induction:By ER stress-inducing agents, such as thapsigargin and tunicamycin.,PTM:Contains high-mannose Endo H-sensitive carbohydrates.,PTM:Cys-169, Cys-171, Cys-193 and Cys-196 form intramolecular disulfide bonds. The preferential partner for each Cys is not known.,PTM:Thr-188 was reported (PubMed:17525332) to be phosphorylated upon DNA damage by ATM or ATR; however as this position has been shown to be in the ER lumen, the in vivo relevance is not proven.,similarity:Contains 1 J domain.,subcellular location:Associated with the ER membrane in a C-terminally epitope-tagged construct.,subunit:Part a large chaperone multiprotein complex comprising CABP1, DNAJB11, HSP90B1, HSPA5, HYOU, PDIA2, PDIA4, PPIB, SDF2L1, UGT1A1 and very small amounts of ERP29, but not, or at very low levels, CALR nor CANX. Binds to denatured substrates in an ATP-independent manner. Interacts via the J domain with HSPA5 in an ATP-dependent manner.,tissue specificity:Widely expressed.,

Research Area

Image Data

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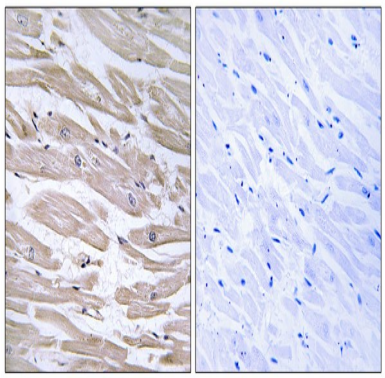
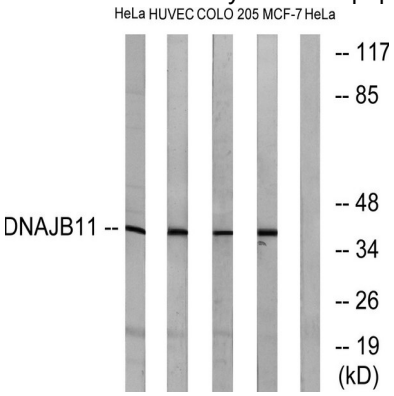
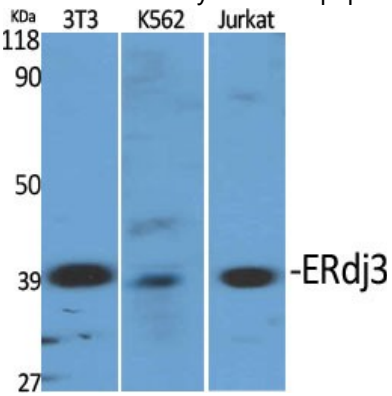


Immunohistochemistry analysis of paraffin-embedded human heart tissue, using DNAJB11 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HeLa, HUVEC, COLO, and MCF-7 cells, using DNAJB11 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using ERdj3 Polyclonal Antibody diluted at 1： 2000

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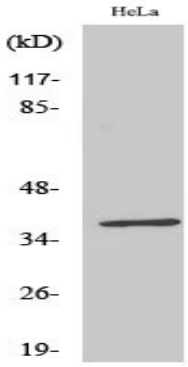

Western Blot analysis of MCF7 cells using ERdj3 Polyclonal Antibody diluted at 1： 2000

Note

For research use only.