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DNAJC10 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18675a

Product Information

Application	WB, E
Primary Accession	Q8IXB1
Other Accession	Q498R3, Q9DC23, NP_061854.1
Reactivity	Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB38590
Calculated MW	91080
Antigen Region	56-82

Additional Information

Gene ID	54431
Other Names	DnaJ homolog subfamily C member 10, 184-, Endoplasmic reticulum DNA J domain-containing protein 5, ER-resident protein ERdj5, ERdj5, Macrothioredoxin, MTHr, DNAJC10, ERDJ5
Target/Specificity	This DNAJC10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 56-82 amino acids from the N-terminal region of human DNAJC10.
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	DNAJC10 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DNAJC10
Synonyms	ERDJ5

Function	Endoplasmic reticulum disulfide reductase involved both in the correct folding of proteins and degradation of misfolded proteins. Required for efficient folding of proteins in the endoplasmic reticulum by catalyzing the removal of non-native disulfide bonds formed during the folding of proteins, such as LDLR. Also involved in endoplasmic reticulum-associated degradation (ERAD) by reducing incorrect disulfide bonds in misfolded glycoproteins recognized by EDEM1. Interaction with HSPA5 is required its activity, not for the disulfide reductase activity, but to facilitate the release of DNAJC10 from its substrate. Promotes apoptotic signaling pathway in response to endoplasmic reticulum stress.
Cellular Location	Endoplasmic reticulum lumen {ECO:0000255|PROSITE- ProRule:PRU10138, ECO:0000269|PubMed:12411443, ECO:0000269|PubMed:23769672}

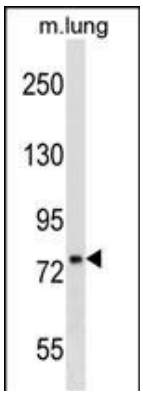
Background

This endoplasmic reticulum co-chaperone may play a role in protein folding and translocation across the endoplasmic reticulum membrane. May act as a co-chaperone for HSPA5.

References

Wang, M., et al. J. Biol. Chem. 284(48):33377-33383(2009)
Thomas, C.G., et al. J. Biol. Chem. 284(10):6282-6290(2009)
Ushioda, R., et al. Science 321(5888):569-572(2008)
Dong, M., et al. Mol. Biol. Cell 19(6):2620-2630(2008)
Hillier, L.W., et al. Nature 434(7034):724-731(2005)

Images



DNAJC10 Antibody (N-term) (Cat. #AP18675a) western blot analysis in mouse lung tissue lysates (35ug/lane).This demonstrates the DNAJC10 antibody detected the DNAJC10 protein (arrow).