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DNAJC10 Rabbit pAb

Catalog # AP98187

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8IXB1
Other Accession	Q8IXB1
Reactivity	Human
Predicted	Rat, Mouse, Rabbit, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	91080
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DNAJC10
Epitope Specificity	51-160/793
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 J domain.Contains 4 thioredoxin domains.
SUBUNIT	Interacts with HSPA5 via its J domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes an endoplasmic reticulum co-chaperone which is part of the endoplasmic reticulum-associated degradation complex involved in recognizing and degrading misfolded proteins. The encoded protein reduces incorrect disulfide bonds in misfolded glycoproteins. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Oct 2012].

Additional Information

Gene ID	54431
Other Names	ERdj5; JPDI; MTHr; PDIA19; DJC10_HUMAN; DNAJC10; Endoplasmic reticulum DNA J domain-containing protein 5 (ER-resident protein ERdj5 | ERdj5); Macrothioredoxin (MTHr); 1.8.4.-; DnaJ heat shock protein family (Hsp40) member C10; DnaJ (Hsp40) homolog, subfamily C, member 10; protein disulfide isomerase family A, member 19
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	DNAJC10 (HGNC:24637)
Function	Endoplasmic reticulum disulfide reductase that collaborates directly with the chaperone BIP/HSPA5 (GRP78) to maintain protein quality control by facilitating either the correct folding or the targeted degradation of misfolded proteins (PubMed:12411443, PubMed:23769672, PubMed:37739037). Essential for efficient maturation of newly synthesized polypeptides in the endoplasmic reticulum, binds to substrate proteins and specifically catalyzes the reduction and removal of improper (non-native) disulfide bonds during the folding process (PubMed:23769672, PubMed:37739037). In endoplasmic reticulum- associated degradation (ERAD), DNAJC10 reduces incorrect disulfide bonds specifically in misfolded glycoproteins that have been recognized by EDEM1, a key component of the ERAD pathway, thereby enabling their retrotranslocation and degradation (PubMed:18400946). Promotes apoptotic signaling pathway in response to endoplasmic reticulum stress (PubMed:19122239).
Cellular Location	Endoplasmic reticulum lumen {ECO:0000255|PROSITE- ProRule:PRU10138, ECO:0000269|PubMed:12411443, ECO:0000269|PubMed:23769672}

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