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Rabbit Anti-DNAJA1/Cy5 Conjugated antibody

SL11277R-Cy5

Product Name	Anti-DNAJA1/Cy5
Chinese Name	Cy5 标记的热休克蛋白相关蛋白 4 抗体
Alias	DJ 2; DJ2; DjA1; DnaJ (Hsp40) homolog, subfamily A, member 1; DnaJ homolog subfamily A member 1; DnaJ protein homolog 2; DNAJ2; Dnaja1; DNJA1_HUMAN; hDJ 2; HDJ-2; HDJ2; Heat shock 40 kDa protein 4; HSP 40-4; heat shock protein DNAJ like 2; Heat shock protein J2; HSDJ; HSJ-2; HSJ2; HSPF4; Human DnaJ protein 2; NEDD7; Neural precursor cell expressed developmentally down regulated 7; OTTHUMP00000021193.
Research Area	Cell biology Developmental biology Signal transduction
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse(predicted:Human,Rat,Pig,Cow,Rabbit,Sheep)
Applications	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	45kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human HSP 40-4 (21-110aa)
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**background:** DnaJ-like proteins interact with HSP 70 molecular chaperones and function to

facilitate protein folding and mitochondrial protein import. HSP 40-4, also known as HDJ2, is the human DnaJ homolog that functions as a co-chaperone with a cysteine-rich zinc finger domain. The cellular redox enzyme thioredoxin interacts with HSP 40-4, and oxidation and reduction reversibly regulate HSP 40-4 function in response to the changing redox states of the cell. The zinc finger domain of HSP 40-4 may act as a redox sensor of chaperone-mediated protein-folding machinery, since HSP 40-4 inactivation leads to the oxidation of cysteine thiols and a simultaneous release of coordinated zinc. Loss of the HSP 40-4 protein may be linked to severe defects in spermatogenesis that involve aberrant androgen signaling.

Function:
Co-chaperone of Hsc70. Seems to play a role in protein import into mitochondria.

Subcellular Location:
Membrane.

Similarity:
Contains 1 CR-type zinc finger.
Contains 1 J domain.

Database links:

Entrez Gene: 3301 Human

Entrez Gene: 15502 Mouse

Entrez Gene: 100512008 Pig

Entrez Gene: 65028 Rat

Omim: 602837 Human

SwissProt: P31689 Human

SwissProt: P63037 Mouse

SwissProt: P63036 Rat

Unigene: 445203 Human

Unigene: 27897 Mouse

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Unigene: 64562 Rat

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.