



Rabbit Anti-DNAJA1 antibody

SL11277R

Product Name:	DNAJA1
Chinese Name:	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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	45kDa
Cellular localization:	The nucleuscytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human HSP 40-4:21-110/397
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% 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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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.

SWISS:

P31689

Gene ID:

3301

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

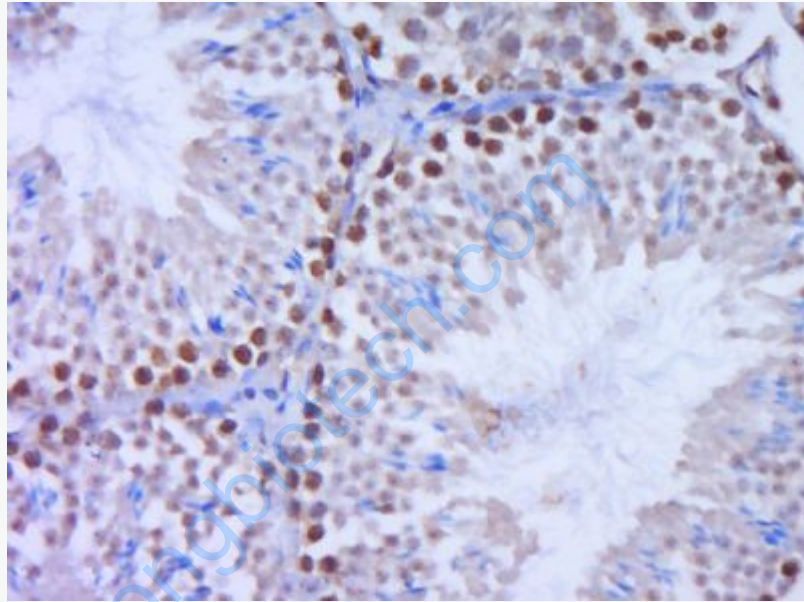
[Unigene: 445203](#) Human

[Unigene: 27897](#) Mouse

[Unigene: 64562](#) Rat

Important Note:

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



Picture:

Paraformaldehyde-fixed, paraffin embedded (Mouse testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DNAJA1) Polyclonal Antibody, Unconjugated (SL11277R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.