

## Product datasheet for **TA350069S**

### HDJ2 (DNAJA1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: HepG2, Raji, A431 and 231 cells IHC: 100-300 Positive control: Human colon cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human DNAJA1
Formulation:	pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	45 kDa
Gene Name:	DnaJ heat shock protein family (Hsp40) member A1
Database Link:	<a href="#">NP_001530</a> <a href="#">Entrez Gene 3301 Human</a> <a href="#">P31689</a>



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**Background:**

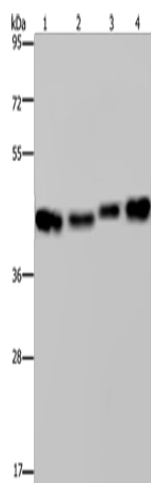
DnaJ-like proteins interact with HSP 70 molecular chaperones and function to facilitate protein folding and mitochondrial protein import. HSP 40-4, also known as HDJ2, is the human DnaJ homolog that functions as a co-chaperone with a cysteine-rich zinc finger domain. The cellular redox enzyme thioredoxin 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.

**Synonyms:**

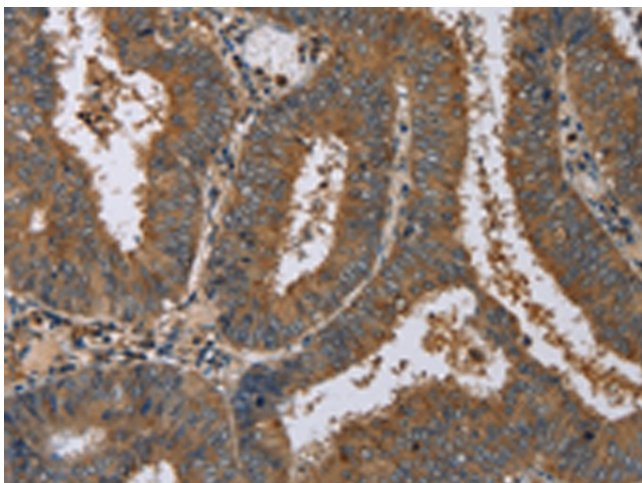
DJ-2; DjA1; hDJ-2; HDJ2; HSDJ; HSJ2; HSPF4; NEDD7

**Protein Families:**

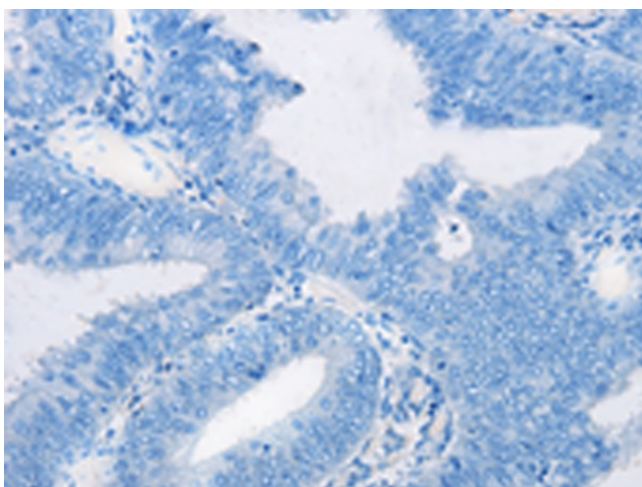
Druggable Genome

**Product images:**


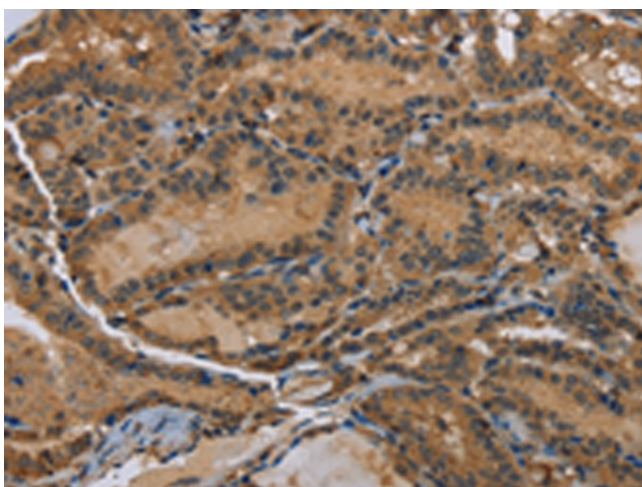
Gel: 8%SDS-PAGE  
 Lysate: 40 µg  
 Lane 1-4: HepG2 cells  
 Raji cells  
 A431 cells  
 231 cells  
 Primary antibody: [TA350069] (DNAJA1 Antibody) at dilution 1/800  
 Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution  
 Exposure time: 5 seconds



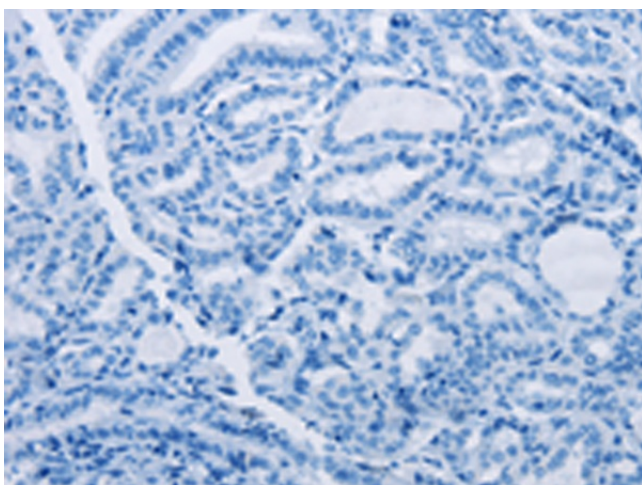
Immunohistochemistry of paraffin-embedded Human colon cancer tissue using [TA350069] (DNAJA1 Antibody) at dilution 1/60 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human colon cancer tissue using [TA350069] (DNAJA1 Antibody) at dilution 1/60, treated with fusion protein. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA350069] (DNAJA1 Antibody) at dilution 1/60 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA350069] (DNAJA1 Antibody) at dilution 1/60, treated with fusion protein. (Original magnification:  $\times 200$ )