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Datasheet for ABIN361662  
**anti-DNAJB1 antibody**

1 Image

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### Overview

Quantity:	100 µg
Target:	DNAJB1
Reactivity:	Saccharomyces cerevisiae
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This DNAJB1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP)

### Product Details

Immunogen:	Full length protein HSP40 (YDJ1)
Clone:	2A7-H6
Isotype:	IgG1 kappa
Specificity:	Detects ~40 kDa. Yeast specific. Does not cross react with Human, Mouse or Rat.
Cross-Reactivity:	Saccharomyces cerevisiae
Purification:	Protein G Purified

### Target Details

Target:	DNAJB1
Alternative Name:	HSP40 ( <a href="#">DNAJB1 Products</a> )
Background:	Human HSP40/DnaJ proteins comprise a large protein family, members of which feature the J

## Target Details

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domain (named after the bacterial DnaJ protein) (1). The J-domain spans the first 75 N-terminal amino acids and is separated from the C-terminal by a glycine/phenylalanine-rich domain (2). Members of the HSP40/DnaJ family play diverse roles in many cellular processes, such as folding, translocation, degradation and assembly of multi-protein complexes. In particular, Hdj1, the first human HSP40/DnaJ protein identified, plays an important role in protein translation and folding, as well as in the regulation of HSP70 function (3). HSP40 stimulates the ATPase activity of HSP70 which in turn causes conformational changes of the unfolded proteins (4, 5). The HSP40-HSP70-unfolded protein complex further binds to co-chaperones Hip, Hop and HSP90 which leads to protein folding, or components of protein degradation machinery CHIP and BAG-1 (6). Some studies have shown that the difference between HDJ1 and type 1 DNAJ proteins including HDJ2 and yeast Ydj1 is the result of the possession of a zinc finger domain by the latter, which helps in the function of protein folding. (7, 8).

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Gene ID: 855661

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NCBI Accession: [NP\\_014335](#)

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UniProt: [P25491](#)

## Application Details

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Application Notes: 

- WB (1:2000)
- optimal dilutions for assays should be determined by the user.

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Comment: 0.5 µg/ml of ABIN361661 was sufficient for detection of 50 ng YDJ1 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Concentration: 1 mg/mL

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Buffer: 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated

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Preservative: Sodium azide

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Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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## Handling

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Storage: -20 °C

Storage Comment: -20°C

## Publications

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Product cited in: Wang, He, Meng, Liu, Pu, Ji: "A proteomics analysis of rat liver membrane skeletons: the investigation of actin- and cytokeratin-based protein components." in: **Journal of proteome research**, Vol. 9, Issue 1, pp. 22-9, (2010) ([PubMed](#)).

Liao, Wang, Chen, Wang, Wu: "Lipopolysaccharide-induced inhibition of connexin43 gap junction communication in astrocytes is mediated by downregulation of caveolin-3." in: **The international journal of biochemistry & cell biology**, Vol. 42, Issue 5, pp. 762-70, (2010) ([PubMed](#)).

Han, Yang, Yue, Huang, Liu, Pu, Jiang, Yan, Jiang, Kang: "Inactivation of PI3K/AKT signaling inhibits glioma cell growth through modulation of  $\beta$ -catenin-mediated transcription." in: **Brain research**, Vol. 1366, pp. 9-17, (2010) ([PubMed](#)).

## Images

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**Image 1.** Hsp40 (YDJ1 2A7 H6), 0.