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Publications



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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 (DNAJB1 Products)
Background:	Human HSP40/DnaJ proteins comprise a large protein family, members of which feature the J

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 cochaperones 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 YdjI is the result of the possession of a zinc finger domain by the latter, which helps in the function of protein folding. (7, 8).

 Gene ID:
 855661

 NCBI Accession:
 NP_014335

 UniProt:
 P25491

Application Details

Application Notes: • WB (1:2000)

• optimal dilutions for assays should be determined by the user.

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.

Restrictions: For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage:	-20 °C
Storage Comment:	-20°C

Publications

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 ?-catenin-mediated transcription." in: **Brain research**, Vol. 1366, pp. 9-17, (2010) (PubMed).

Images

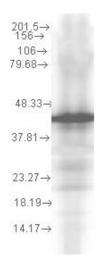


Image 1. Hsp40 (YDJ1 2A7 H6), 0.