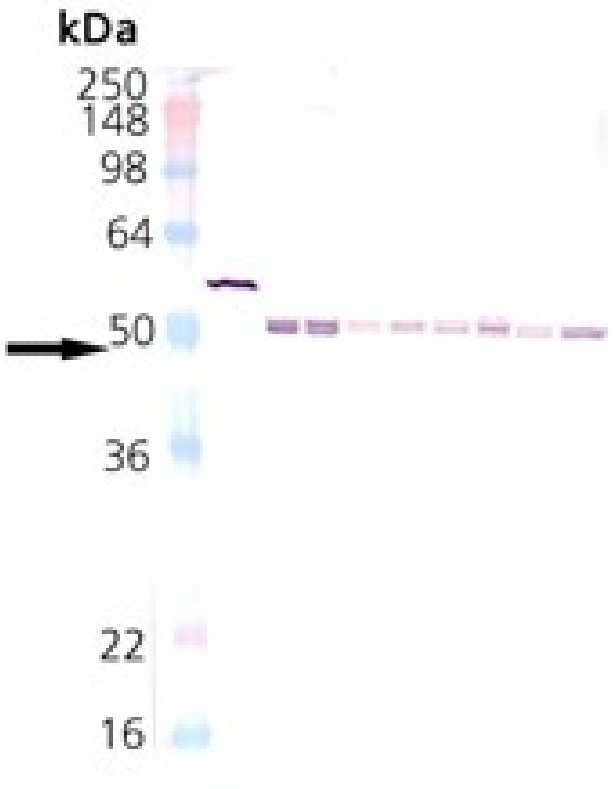
# HSP40/Hdj2 polyclonal antibody

Hdj2 is an approximately 40kDa member of the heat shock protein (Hsp40) family, a eukaryotic homolog of the E. coli DnaJ protein. Eukaryotic DnaJ-like proteins share structural domain conservation with DnaJ namely: 1) an N-terminal ~70 amino acid J domain, 2) a glycine- and phenylalanine-rich domain, 3) a cysteine-rich zinc finger domain, and 4) a poorly conserved C-terminal domain. The human constitutive Hdj2 protein shares full domain conservation with DnaJ, as opposed to the human inducible Hdj1 which lacks the zinc-finger domain. The Hsp40 J domain regulates its interaction with Hsp70 (E. coli DnaK), increasing Hsp70 ATPase activity and in turn enhancing substrate binding by the Hsp70 chaperone. Hsp40 co-chaperones are involved in nearly all aspects of protein synthesis and secretion because of their importance in Hsp70 function, and they are also thought to have an intrinsic ability to bind and fold some misfolded proteins. Hdj2 has been specifically shown to interact with Hsc70, the constitutive form of Hsp70, in the biogenesis of the cystic fibrosis transmembrane conductance regulator (CFTR), mutations of which are known to cause inherited cystic fibrosis.

**This antibody is covered by our Worry-Free Guarantee.**

**Citations:** 3 View Online »

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Western Blot Analysis of HSP40/Hdj2, pAb: Lane 1: MWM, Lane 2: Hsp40/Hdj2 Recombinant Human Protein (Prod. No. ADI-SPP-405), Lane 3: HeLa Cell Lysate (Prod. No. ADI-LYC-HL100), Lane 4: HeLa Cell Lysate, Heat Shocked (Prod. No. ADI-LYC-HL101), Lane 5: PC-12 Cell Lysate (Prod. No. ADI-LYC-PC100), Lane 6: PC-12 Cell Lysate, Heat Shocked (Prod. No. ADI-LYC-PC101), Lane 7: 3T3 Cell Lysate (Prod. No. ADI-LYC-3T100), Lane 8: 3T3 Cell Lysate, Heat Shocked (Prod. No. ADI-LYC-3T101), Lane 9: CHO-K1 Cell Lysate, Lane 10: CHO-K1 Cell Lysate, Heat Shocked.

## Handling & Storage

| | |
|---|---|
| **Handling** | Avoid freeze/thaw cycles. |
| **Long Term Storage** | -20°C |
| **Shipping** | Blue Ice |

## Regulatory Status

RUO - Research Use Only

## Product Details

| | |
|---|---|
| **Alternative Name** | Heat shock protein 40 |
| **Application** | WB |
| **Application Notes** | Detects a band of ~45kDa by Western blot. |
| **Formulation** | Liquid. In PBS containing 50% glycerol and 0.09% sodium azide. |
| **Host** | Rabbit |
| **Immunogen** | Recombinant human HSP40/Hdj2. |
| **Purity Detail** | Protein A-affinity purified. |
| **Recommendation Dilutions/Conditions** | Western Blot (1:1,000, colorimetric)Suggested dilutions/conditions may not be available for all applications.Optimal conditions must be determined individually for each application. |
| **Source** | Purified from rabbit serum. |
| **Species Reactivity** | Hamster, Human, Mouse, Rat |
| **Specificity** | Has high specificity for the constitutively expressed Hdj2 compared to Hdj1 using recombinant controls. |
| **UniProt ID** | P31689 |
| **Worry-free Guarantee** | **This antibody is covered by our Worry-Free Guarantee .** |

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ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

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