

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

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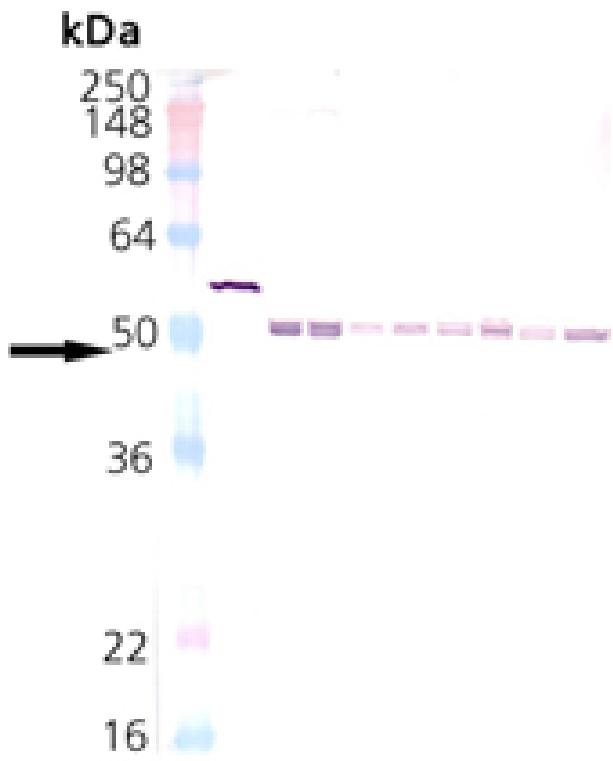
Ordering Information

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ADI-SPA-405-050	50µg
ADI-SPA-405-200	200µg

Manuals, SDS & CofA

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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

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