

Hip Antibody

100 µl
(10 western blots)

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Entrez-Gene ID #6767
Swiss-Prot Acc. #P50502

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W Endogenous	H, M, R, Mk	48 kDa	Rabbit**

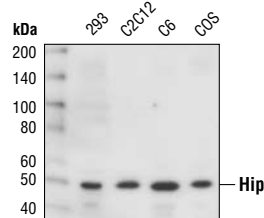
Background: Hip (HSP70-interacting protein) is one of several co-chaperones that regulate activities of the HSP70 chaperone family (1–2). The homo-oligomeric protein Hip cooperates with HSP70 in protein folding by stabilizing the ADP-bound state of HSP70. Hip directly binds to the ATPase domain of HSP70 when it is converted to the ADP-bound state by proteins of the HSP40 family (3). By collaborating with other positive co-factors such as HSP40 and Hop, or competing with negative co-factors such as Bag1, Hip may facilitate the chaperone function of HSP70 in protein folding and repair, and in controlling the activity of regulatory proteins such as steroid receptors and various regulators of proliferation or apoptosis (4–8).

Specificity/Sensitivity: Hip Antibody detects endogenous levels of total Hip protein.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to human Hip. Antibodies are purified by protein A and peptide affinity chromatography.

Background References:

- (1) Prapapanich, V. et al. (1996) *Mol. Endocrinol.* 10, 420–431.
- (2) Gebauer, M. et al. (1997) *FEBS Lett.* 417, 109–113.
- (3) Höhfeld, J. et al. (1995) *Cell* 83, 589–598.
- (4) Frydman, J. and Höhfeld, J. (1997) *Trends Biochem. Sci.* 22, 87–92.
- (5) Nollen, E.A. et al. (2001) *J. Biol. Chem.* 276, 4677–4682.
- (6) Fan, G.H. et al. (2002) *J. Biol. Chem.* 277, 6590–6597.
- (7) Nelson, G.M. et al. (2004) *Mol. Endocrinol.* 18, 1620–1630.
- (8) Shi, Z.Z. et al. (2007) *J. Zhejiang Univ. Sci. B.* 8, 170–176.



Western blot analysis of extracts from various cell types using Hip Antibody.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignaling.com.

Please visit www.cellsignaling.com for a complete listing of recommended companion products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
 Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.