Revision 1

#2723 Store at -20C

Hip Antibody

Cell Signaling TECHNOLOGY®

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	48	Rabbit	#P50502	6767

Product Usage Information

Application	Dilution
Western Blotting	1:1000

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.

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

Hip (HSP70-interacting protein), also known as ST13 (suppression of tumorigenicity protein 13), 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).

Background References

1. Prapapanich, V. et al. (1996) *Mol. Endocrino.l* 10, 420-431.
2. Gebauer, M. et al. (1997) *FEBS Lett.* 417, 109-113.
3. Höhfeld, J. et al. (1995) *Cell* 83, 589-.98.
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.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

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

Applications Key

WB: Western Blotting

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **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
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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Limited Uses

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