



**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

Store at -20C  
#5670

## HOP (D10E2) XP<sup>®</sup> Rabbit mAb

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

<b>Applications:</b> W, IF-IC, FC-FP	<b>Reactivity:</b> H Mk B	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 64	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P31948	<b>Entrez-Gene Id:</b> 10963
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### Product Usage Information

#### Application

Western Blotting  
Immunofluorescence (Immunocytochemistry)  
Flow Cytometry (Fixed/Permeabilized)

#### Dilution

1:1000  
1:100  
1:50

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #20138.

### Specificity/Sensitivity

HOP (D10E2) XP<sup>®</sup> Rabbit mAb recognizes endogenous levels of total HOP protein. This antibody is not known to cross-react with other heat shock proteins.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro391 of human HOP protein.

### Background

HOP, also known as stress-induced phospho protein 1 (STIP), is a co-chaperone to the major heat shock proteins, Hsp70 and Hsp90, and appears in early receptor complexes (1,2). Through mutual binding to both Hsp70 and Hsp90, Hop functions as an adaptor that can integrate Hsp70 and Hsp90 interactions (3,4). HOP is an abundant and highly conserved protein which is composed of three tetratricopeptide repeat (TPR) domains (TPR1, TPR2a and TPR2b) and two DP repeat domains (DP1 and DP2), whose function has not been fully resolved (5).

### Background References

1. Smith, D.F. et al. (1993) *Mol Cell Biol* 13, 869-76.
2. Smith, D.F. (1993) *Mol Endocrinol* 7, 1418-29.
3. Chen, S. and Smith, D.F. (1998) *J Biol Chem* 273, 35194-200.
4. Nelson, G.M. et al. (2003) *Cell Stress Chaperones* 8, 125-33.
5. Carrigan, P.E. et al. (2005) *J Biol Chem* 280, 8906-11.

### 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

**W:** Western Blotting **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

### Cross-Reactivity Key

**H:** Human **Mk:** Monkey **B:** Bovine

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