| | Only. Not for Use in Reactivity: | n Diagnostic Procec | lures. MW (kDa): | | UniProt ID | | |
|----------|-------------------------------------|---------------------|---------------------|------------------|----------------------|--|--|
| #12 | | | | 3 Trask Lane D |) Danvers Massa | cellsignal.com hchusetts 01923 USA | |
| 2538 | | | | | Web: | info@cellsignal.com | |
| ∞ | | | | | Support: | 877-678-TECH (8324) | |
| | | | | | Orders: | 877-616-CELL (2355) orders@cellsignal.com | |
| SAM68 | Antibody | | | | T E | ECHNOLOGY | |

| Applications: W | Reactivity: H M R Mk | Sensitivity: Endogenous | MW (kDa): 68 | Source/Isotype: Rabbit | UniProt ID: #Q07666 | Entrez-Gene Id: 10657 | | | |
|--|--------------------------------|---|------------------------|----------------------------------|-------------------------------|---------------------------------|--|--|--|
| Product Usage Information | 9 | Application Western Blotting | | | Dilution 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 | | SAM68 Antibody recognizes endogenous levels of total SAM68 protein. | | | | | | | |
| Species predicted to react based on 100% sequence homology | | Hamster, Bovine, Dog, Pig, Horse, Guinea Pig | | | | | | | |
| Source / Purifi | cation | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human SAM68 protein. Antibodies are purified by protein A and peptide affinity chromatography. | | | | | | | |
| Background | | Src associated in mitosis 68 kDa (SAM68) is a member of the signal transduction and activation of RNA (STAR) family of RNA binding proteins (1,2). SAM68 is a multi-functional protein with roles in signal transduction, cell cycle regulation, transcription, and alternative splicing (1-3). SAM68 acts as a scaffold protein mediating responses to various stimuli that activate receptors, such as the T-cell receptor and the insulin receptor, linking activation of various signal transduction pathways with post-transcriptional gene regulation (3). SAM68 is a target for phosphorylation by Src-related kinases and Erk1/2 mitogen-activated protein kinases. Phosphorylation of SAM68 regulates both its affinity for RNA and alternative splicing of RNAs like CD44 receptor mRNA (1,4). Many of the activities of SAM68 and its targets for alternative splicing have been implicated in the development and progression of spinal muscular atrophy and cancers such as prostate and breast carcinomas, where SAM68 is frequently upregulated (1,5-8). | | | | | | | |
| Background References | | Bielli, P. et al. (2011) <i>Endocr Relat Cancer</i> 18, R91-R102. Lukong, K.E. and Richard, S. (2003) <i>Biochim Biophys Acta</i> 1653, 73-86. Najib, S. et al. (2005) <i>Cell Mol Life Sci</i> 62, 36-43. Matter, N. et al. (2002) <i>Nature</i> 420, 691-5. Pedrotti, S. et al. (2010) <i>EMBO</i> J 29, 1235-47. Busà, R. et al. (2007) <i>Oncogene</i> 26, 4372-82. Rajan, P. et al. (2008) <i>J Pathol</i> 215, 67-77. Song, L. et al. (2010) <i>J Pathol</i> 222, 227-37. | | | | | | | |
| Species Reacti | vity | Species reactivity is d | etermined by testir | g in at least one approve | ed 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 | | | | | | | |
| Cross-Reactivity Key | | H: Human M: Mouse R: Rat Mk: Monkey | | | | | | | |
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