Store at -20C

## STIM1 (D88E10) Rabbit mAb



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.  |                           |  |                        |                               |                        |  |  |
|---|---------------------------|--|------------------------|-------------------------------|------------------------|--|--|
| <b>Applications:</b> WB, IP, IF-IC  | Reactivity:<br>H M R Mk B | Sensitivity:<br>Endogenous   | <b>MW (kDa):</b><br>85 | Source/Isotype:<br>Rabbit IgG | UniProt ID:<br>#Q13586 | Entrez-Gene Id:<br>6786  |  |
| Product Usage<br>Information  | Ар                        | plication  |                        |                               |                        | Dilution   |  |
|   | We                        | stern Blotting   |                        |                               |                        | 1:1000   |  |
|   | Imr                       | nunoprecipitation  |                        |                               |                        | 1:50   |  |
|   | Imr                       | Immunofluorescence (Immunocytochemistry)   |                        |                               |                        | 1:800  |  |
| Storage   | • •                       | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20$ °C. Do not aliquot the antibody. |                        |                               |                        |  |  |
| Specificity / Sens  |                           | STIM1 (D88E10) Rabbit mAb recognizes endogenous levels of total STIM1 protein. The antibody does not cross-react with STIM2.   |                        |                               |                        |  |  |
| Source / Purifica   |                           | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro622 of human STIM1 protein.                      |                        |                               |                        |  |  |
| Ca2+ is a key second messenger in many intracellular signaling pathways. cellular functions ranging from short-term responses such as contraction at regulation of cell growth and proliferation (1,2). Stromal interaction molecul sensors that detect changes in Ca2+ content in intracellular Ca2+ stores (3 ubiquitously expressed, and functions as an endoplasmic reticulum (ER) C the ER Ca2+ store to the plasma membrane where it activates calcium-relection channels when the ER Ca2+ store is low (4). STIM1 is a potential tumor such cause rhabdomyosarcoma and rhabdoid tumors (5). STIM1 can either hom |                           |  |                        |                               |                        | n to longer-term ) function as Ca2+ s conserved, r that migrates from Ited calcium (CRAC) defects in STIM1 may |  |

**Background References** 

- required to elucidate the true physiological function of STIM2. 1. Berridge, M.J. et al. (2000) Nat Rev Mol Cell Biol 1, 11-21.
- 2. Berridge, M.J. et al. (2003) Nat Rev Mol Cell Biol 4, 517-29.
- 3. Zheng, L. et al. (2008) Biochem Biophys Res Commun 369, 240-6.
- 4. Zhang, S.L. et al. (2005) Nature 437, 902-5.
- 5. Manji, S.S. et al. (2000) Biochim Biophys Acta 1481, 147-55.
- 6. Soboloff, J. et al. (2006) Curr Biol 16, 1465-70.

**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 nonfat dry

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key** 

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

with STIM2. STIM2 possesses a high sequence identity to STIM1 and can function as an inhibitor of STIM1-mediated plasma membrane store-operated Ca2+ entry (6). However, further investigation is

GP: Guinea Pig Rab: rabbit All: all species expected

Trademarks and **Patents** 

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more

information.

**Limited Uses** Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and

conditions that are in addition to, or different from, those contained herein, unless separately accepted in

STIM1 (D88E10) Rabbit mAb (#5668) Datasheet Without Images Cell Signaling Technology writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.