1/1/24, 1:35 PM Revision 3

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| e at -20C  | CLIC1 (D7                      | 'D6H) Rab            |                            |                        |                               |                        |  |  |
|--|--------------------------------|----------------------|----------------------------|------------------------|-------------------------------|------------------------|--|--|
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| <b>⊭5</b> 3  |                                |                      |                            |                        |                               | Web:                   | info@cellsignal.com<br>cellsignal.com        |  |
| 71-  |                                |                      |                            |                        | 3 Trask L                     | ane   Danvers   Ma     | ssachusetts 01923 USA                        |  |
| For Research Use Only. Not for Use in Diagnostic Procedures. |                                |                      |                            |                        |                               |                        |  |  |
| A  | p <b>plications:</b><br>WB, IP | Reactivity:<br>H M R | Sensitivity:<br>Endogenous | <b>MW (kDa):</b><br>22 | Source/Isotype:<br>Rabbit IgG | UniProt ID:<br>#O00299 | Entrez-Gene Id:<br>1192                      |  |

| WB, II                                | Endogenous  |  | Rubbit igo  | 1000200   | 1102   |  |  |  |  |
|---------------------------------------|---|--|---|---|--|--|--|--|--|
| Product Usage<br>Information          | Application<br>Western Blotting<br>Immunoprecipitation  |  |   | <b>Dilution</b><br>1:1000<br>1:50   |  |  |  |  |  |
| Storage                               | Supplied in 10 mM sodiur<br>0.02% sodium azide. Sto   | 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 / Sensitivity             | CLIC1 (D7D6H) Rabbit m  | CLIC1 (D7D6H) Rabbit mAb recognizes endogenous levels of total CLIC1 protein.  |   |   |  |  |  |  |  |
| Source / Purification                 | Monoclonal antibody is pr<br>residues surrounding Glu   | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu234 of human CLIC1 protein.  |   |   |  |  |  |  |  |
| Background                            | Chloride intracellular chan<br>found as both soluble and<br>chloride ion channel activ<br>protein superfamily and a<br>channels in that they are<br>their function (3-6). Chlori<br>types and are involved in<br>CLIC1 is a member of the<br>CLIC1 is overexpressed i<br>invasion of these tumors<br>amyloid $\beta$ -peptide treatmeneurons co-cultured with<br>translocates from the cyto<br>and contributes to the sub<br>discoveries implicate CLI  | nnel (CLIC) pro-<br>d membrane-bo<br>vity, they are stru-<br>re likewise regu<br>found as both s<br>ide intracellular<br>diverse biologie<br>e CLIC protein f<br>in multiple tumo<br>(8-11). In the ce<br>ent in neonatal<br>amyloid β-pepti<br>psol to the plasm<br>bsequent neuro<br>C1 as a possibl   | teins belong to a family<br>und forms (1). Although<br>uctural homologs to men<br>ulated by redox status (2<br>oluble and integral men<br>channel proteins are ut<br>cal functions (1,2).<br>amily. It is ubiquitously of<br>r types and has been in<br>entral nervous system, (2)<br>rat microglia. Inhibition<br>de treated microglia (12)<br>na membrane of microg<br>toxicity through generat<br>e therapeutic target for | of highly conserved trar<br>of LIC proteins have pur<br>mbers of the glutathione<br>2). CLIC proteins are dis<br>nbrane forms, and their<br>piquitously expressed in<br>expressed in many tissu-<br>nplicated in the prolifera<br>CLIC1 protein expression<br>of CLIC1 prevents neuron<br>2). Further studies indication<br>lia upon exposure to ar-<br>ion of superoxide anion<br>Alzheimer's disease. | hsport proteins<br>tative, selective<br>e-S-transferase<br>stinct from other ion<br>form determines<br>numerous tissue<br>es and organs (7).<br>tion, migration, and<br>n is elevated upon<br>onal apoptosis in<br>ate that CLIC1<br>nyloid $\beta$ -peptide,<br>s (13). These |  |  |  |  |
| Background References                 | <ol> <li>Littler, D.R. et al. (2010</li> <li>Oakley, A.J. (2005) <i>Cul</i></li> <li>Littler, D.R. et al. (2005)</li> <li>Singh, H. and Ashley, F</li> <li>Suh, K.S. et al. (2004)</li> <li>Fernández-Salas, E. et</li> <li>Ulmasov, B. et al. (2000)</li> <li>Wei, X. et al. (2015) <i>J</i> (2000)</li> <li>Wei, X. et al. (2015) <i>J</i> (2000)</li> <li>Gurski, L.A. et al. (2015) <i>T</i></li> <li>Ding, Q. et al. (2014) <i>Ca</i></li> <li>Novarino, G. et al. (2000)</li> <li>Milton, R.H. et al. (2000)</li> </ol> | <ul> <li>FEBS Lett 58,<br/>rr Opin Struct B</li> <li>FEBS J 272, 4</li> <li>FEBS J 272, 4</li> <li>FEBS J 272, 4</li> <li>FEBS J 272, 4</li> <li>FOLOS</li> <li>Biol Chem 27</li> <li>t al. (2002) Mol</li> <li>T) BMC Cell Bio</li> <li>Gastroenterol H</li> <li>Gastroenterol H</li> <li>Mol Cancer F</li> <li>Tumour Biol 36, ancer Biother R</li> <li>A) J Neurosci 28</li> <li>J Neurosci 28</li> </ul> | 4, 2093-101.<br><i>iol</i> 15, 716-23.<br>4996-5007.<br><i>ohys</i> J 90, 1628-38.<br>9, 4632-41.<br><i>Cell Biol</i> 22, 3610-20.<br><i>ol</i> 8, 8.<br><i>lepatol</i> 30, 208-16.<br>Res 13, 273-80.<br>193-8.<br><i>adiopharm</i> 29, 339-44.<br>24, 5322-30.<br>3, 11488-99.  |   |  |  |  |  |  |
| Species Reactivity                    | Species reactivity is deterr  | mined by testing   | g in at least one approve   | ed application (e.g., wes   | tern blot).  |  |  |  |  |
| Western Blot Buffer                   | IMPORTANT: For western<br>0.1% Tween® 20 at 4°C w   | 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 Kev                      | WB: Western Blotting IP:  | Immunoprecipi  | tation  |   |  |  |  |  |  |
| Cross-Reactivity Kev                  | 0   |  |   |   |  |  |  |  |  |
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| 1/1/24, 1:35 PM           | CLIC1 (D7D6H) Rabbit mAb (#53424) Datasheet Without Images Cell Signaling Technology   |  |  |  |  |
|---------------------------|--|--|--|--|--|
|                           | <ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>   |  |  |  |  |
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