| e at -20C | Erk5 (D3I5V) Rabbit mAb | | | |
|-----------|-------------------------|----------------------------|--|--|
| Store | | Orders: | 877-616-CELL (2355) orders@cellsignal.com | |
| 2950 | | Support: | 877-678-TECH (8324) | |
| 129 | | Web: | info@cellsignal.com cellsignal.com | |
| # | 3 | Trask Lane Danvers Mas | ssachusetts 01923 USA | |

| For Research Use Only | . Not for Use in Diagnostic P | rocedures |
|------------------------|-------------------------------|-----------|
| FOI INESCAIGH USE OINS | Not for ose in Diagnostic F | occuures. |

| Applications: WB, IP | Reactivity: H M R Mk | Sensitivity: Endogenous | MW (kDa): 115 | Source/Isotype: Rabbit IgG | UniProt ID: #Q13164 | Entrez-Gene Id: 5598 |
|---|---|---|---|--|--|--|
| Product Usage Information | We | plication stern Blotting nunoprecipitation | | | Dilution 1:1000 1:50 | |
| Storage | | | | 7.5), 150 mM NaCl, 100 o not aliquot the antibody | | erol and less than |
| Specificity / Sensitivity | | Erk5 (D3I5V) Rabbit mAb recognizes endogenous levels of total Erk5 protein. This antibody detects isoforms 1 and 2 of human Erk5 and isoforms 1-3 of murine Erk5 (note multiple bands in western blot image). | | | | |
| Species predicted react based on 100 sequence homolog | % | se | | | | |
| Source / Purificatio | | loclonal antibody is dues surrounding Le | | nunizing animals with a s Erk5 protein. | synthetic peptide corre | esponding to |
| Background | MAF diffe loop depo trans CSF Erk5 thou func | PK superfamily impli rentiation, and survi TEY motif (Thr218/ endent, Ras-independent, Ras-independent, Ras-independent, sphorylation that ind scriptional targets (5) in hematopoietic p is required for NGF ught to play a role in tion (10-12). Although rerous cardiac defect | cated in the regu- val (1-4). Like ot Tyr220) that is s indent mechanisr uces its transloc 5,6). Erk5 is also progenitor cells w -induced neurite blood vessel inte gh broadly expre | , Big mitogen-activated llation numerous cellula her MAPK family memb pecifically phosphorylate n (5-7). For example, EC ation to the nucleus whe activated in response to there it promotes surviva e outgrowth, neuronal ho egrity via maintenance o ssed, research studies l rk5 plays a critical role i | r processes including ers, Erk5 contains a ci- ed by MAP2K5 (MEK5 GF stimulation promote ere it phosphorylates M o granulocyte colony-si- al and proliferation (7). omeostasis, and surviv of endothelial cell migra have shown that mice | proliferation, anonical activation) in a growth-factor- es Erk5 /IEF2C and other timulating factor (G- In neuronal cells, val (8,9). Erk5 is ation and barrier lacking <i>erk5</i> display |
| Background Refere | 2. H 3. W 4. N 5. K 6. K 7. D 8. O 9. Fi 10. S 11. S | hou, G. et al. (1995) ayashi, M. and Lee, 'ang, X. and Tournie ishimoto, S. and Nis ato, Y. et al. (1998) / ato, Y. et al. (1997) / ong, F. et al. (2001) bara, Y. et al. (2009) negan, K.G. et al. (2009) negan, K.G. et al. (2003) awhney, R.S. et al. (2009) | J.D. (2004) J Ma r, C. (2006) Cell hida, E. (2006) B Nature 395, 713- EMBO J 16, 705- J Biol Chem 276) J Biol Chem 28 2009) Cell Death 09) J Biol Chem 2009) J Cell Phy | bl Med 82, 800-8. Signal 18, 753-60. EMBO Rep 7, 782-6. 6. 4-66. 5, 10811-6. 4, 23564-73. Differ 16, 674-83. 284, 24972-80. rsiol 219, 152-61. | | |
| Species Reactivity | Spec | ies reactivity is dete | rmined by testing | g in at least one approve | ed application (e.g., we | estern blot). |

| 3/23/24, 1:12 PM | Erk5 (D3I5V) Rabbit mAb (#12950) Datasheet Without Images Cell Signaling Technology 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 IP: Immunoprecipitation | | | | |
| 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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