| e at -20C | Rap1B (36E1) Rabbit mAb | | Cell Signaling | | |
|-----------|-------------------------|-----------------------------|--|--|--|
| Store at | | Orders: | 877-616-CELL (2355) orders@cellsignal.com | | |
| 56 | | Support: | 877-678-TECH (8324) | | |
| 2326 | | Web: | info@cellsignal.com cellsignal.com | | |
| # | | 3 Trask Lane Danvers Ma | ssachusetts 01923 USA | | |

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

| Applications: WB | Reactivity: H M R Mk B Pg | Sensitivity: Endogenous | MW (kDa): 21 | Source/Isotype: Rabbit IgG | UniProt ID: #P61224 | Entrez-Gene Id: 5908 | | |
|------------------------------|---|--|---|--|------------------------|-------------------------|--|--|
| Product Usage Information | | Application Western Blotting | | Dilution 1:1000 | | | | |
| 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. | | | | | | |
| Specificity / Sens | | Rap1B (36E1) Rabbit mAb detects endogenous levels of total Rap1B protein. It does not cross-react with Rap1A. | | | | | | |
| Source / Purificat | | Monoclonal antibody is produced by immunizing animals with synthetic peptides corresponding to the carboxy terminal half of human Rap1B. | | | | | | |
| Background | stim dom stim (GA) prote GEF depe tumo effec fucti | Rap1 and Rap2 belong to the Ras subfamily of small GTPases and are activated by a wide variety of stimuli through integrins, receptor tyrosine kinases (RTKs), G-protein coupled receptors (GPCR), death domain associated receptors (DD-R) and ion channels (1,2). Like other small GTPases, Rap activity is stimulated by guanine nucleotide exchange factors (GEF) and inactivated by GTPase activating proteins (GAP). A wide variety of Rap GEFs have been identified: C3G connects Rap1 with RTKs through adaptor proteins such as Crk, Epacs (or CAMP-GEFs) transmit signals from cAMP, and CD-GEFs (or CalDAG-GEFs) convey signals from either or both Ca2+ and DAG (1). Rap1 primarily regulates multiple integrindependent processes such as morphogenesis, cell-cell adhesion, hematopoiesis, leukocyte migration and tumor invasion (1,2). Rap1 may also regulate proliferation, differentiation and survival through downstream effectors including B-Raf, PI3K, RalGEF and phospholipases (PLCs) (1-4). Rap1 and Rap2 are not fuctionally redundant as they perform overlapping but distinct functions (5). Recent research indicates that Rap2 regulates Dsh subcellular localization and is required for Wnt signaling in early development (6). | | | | | | |
| Background Refe | 2. Ca 3. So 4. Ri 5. Ta | Bos, J. et al. (2001) Nat. Rev. Mol. Cell Biol. 2, 369-377. Caron, E. (2003) J. Cell Sci. 116, 435-440. Song, C. et al. (2002) Oncogene 21, 8105-8113. Rong, R. et al. (2003) J Biol Chem 278, 52497-503. Taira, K. et al. (2004) J. Biol. Chem. 279, 49488-49496. Choi, S. and Han, J. (2005) EMBO J. 24, 985-996. | | | | | | |
| Species Reactivit | ty Spec | Species reactivity is determined by testing in at least one approved application (e.g., western blot). | | | | | | |
| Western Blot Buf | | 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: | WB: Western Blotting | | | | | | |
| Cross-Reactivity | X : Xe | enopus Z: zebrafish | B: bovine Dg: de | namster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster le Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse all species expected | | | | |
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Rap1B (36E1) Rabbit mAb (#2326) Datasheet Without Images Cell Signaling Technology

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