£4470

RagD Antibody



Orders: 877-616-CELL (2355)

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Web: info@cellsignal.com

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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

| Applications: W | Reactivity: H | Sensitivity: Endogenous | MW (kDa): 50 | Source/Isotype: Rabbit | UniProt ID: #Q9NQL2 | Entrez-Gene Id 58528 |
|------------------------------|------------------|--|------------------------|----------------------------------|---------------------------|-------------------------|
| Product Usage Information | | Application Western Blotting | | | Dilution 1:1000 | |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody. | | | | |
| Specificity/Sensitivity | | RagD Antibody detects endogenous levels of total RagD protein. | | | | |
| Source / Purification | | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser37 of human RagD protein. Antibodies are purified by protein A and peptide affinity chromatography. | | | | |
| Background | | The mTORC1 kinase complex is a critical regulator of cell growth (1,2). Its activity is modulated by energy levels, growth factors, and amino acids via signaling through Akt, MAPK, and AMPK pathways (3,4). Recent studies found that the four related GTPases, RagA, RagB, RagC, and RagD, interact with raptor within the mTORC1 complex (1,2). These interactions are both necessary and sufficient for mTORC1 activation in response to amino acid signals (1,2). RagD is one of several genes differentially expressed in human melanoma cell lines and has been considered as a viable target for further diagnostic and therapeutic study (5). | | | | |
| Background References | | Sancak, Y. et al. (2008) Science 320, 1496-501. Kim, E. et al. (2008) Nat Cell Biol 10, 935-45. Hay, N. and Sonenberg, N. (2004) Genes Dev 18, 1926-45. Wullschleger, S. et al. (2006) Cell 124, 471-84. de Wit, N.J. et al. (2005) Br J Cancer 92, 2249-61. | | | | |
| Species Reactiv | /ity | Species reactivity is d | etermined by testin | 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 | | | | |
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