

Rap Gtp-Binding Proteins

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Recent Publications on Rap Gtp-Binding Proteins:

- [EPAC and PKA allow cAMP dual control over DNA-PK nuclear translocation.](#)
*We identify a compartmentalized signaling system that identifies a...*7th October, 2008
Neuroscience and Molecular Pharmacology, Faculty of Biomedical and Life- Proc Natl Acad Sci U S A. 2008 Sep 2;105(35):12791-6. Epub 2008 Aug 26. ([DOI Direct Link](#))
- [Rap1 activation plays a regulatory role in pancreatic amylase secretion.](#)
*Rap1 is a member of the Ras superfamily of small GTP-binding proteins and...*4th October, 2008
Department of Molecular and Integrative Physiology, University of- J Biol Chem. 2008 Aug 29;283(35):23884-94. Epub 2008 Jun 24. ([DOI Direct Link](#))
- [Rap1a is a key regulator of fibroblast growth factor 2-induced angiogenesis and together with Rap1b controls human endothelial cell functions.](#)
*Angiogenesis, the formation of new blood vessels from existing...*30th September, 2008
Department of Biochemistry and Molecular Biology, Indiana University- Mol Cell Biol. 2008 Sep;28(18):5803-10. Epub 2008 Jul 14. ([DOI Direct Link](#))
- [cAMP-induced Epac-Rap activation inhibits epithelial cell migration by modulating focal adhesion and leading edge dynamics.](#)
*Epithelial cell migration is a complex process crucial for embryonic...*30th September, 2008
Department of Physiological Chemistry, Centre for Biomedical Genetics and- Cell Signal. 2008 Jun;20(6):1104-16. Epub 2008 Jan 31. ([DOI Direct Link](#))
- [Highlighting the role of Ras and Rap during Dictyostelium chemotaxis.](#)
*Chemotaxis, the directional movement towards a chemical compound, is an...*23rd September, 2008
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- [Rap1b regulates B cell development, homing, and T cell-dependent humoral immunity.](#)
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Laboratory of Molecular Immunology, Medical College of Wisconsin,- J Immunol. 2008 Sep 1;181(5):3373-83.
- [Constitutively active Rap2 transgenic mice display fewer dendritic spines, reduced extracellular signal-regulated kinase signaling, enhanced long-term depression, and impaired spatial learning and fear extinction.](#)
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The Picower Institute for Learning and Memory, RIKEN-Massachusetts- J Neurosci. 2008 Aug 13;28(33):8178-88. ([DOI Direct Link](#))
- [Entropy-driven cAMP-dependent allosteric control of inhibitory interactions in exchange proteins directly](#)

[activated by cAMP.](#)

Exchange proteins directly activated by cAMP (EPACs) are guanine... 30th August, 2008
Department of Chemistry, Biochemistry, and Biomedical Sciences, McMaster- J Biol Chem. 2008 Jul 11;283(28):19691-703. Epub 2008 Apr 14. ([DOI Direct Link](#))

- [The C2 domain of SynGAP is essential for stimulation of the Rap GTPase reaction.](#)
The brain-specific synaptic guanosine triphosphatase (GTPase)-activating... 12th August, 2008
European Molecular Biology Laboratory, Structural and Computational- EMBO Rep. 2008 Apr;9(4):350-5. Epub 2008 Mar 7. ([DOI Direct Link](#))
- [Regulation of activin/nodal signaling by Rap2-directed receptor trafficking.](#)
We show that Rap2, a member of the Ras GTPase family, positively regulates... 7th August, 2008
Division of Molecular and Life Sciences, Pohang University of Science and- Dev Cell. 2008 Jul;15(1):49-61. ([DOI Direct Link](#))
- [A critical role of Rap1b in B-cell trafficking and marginal zone B-cell development.](#)
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Blood Research Institute, Blood Center of Wisconsin, Milwaukee, WI 53226,- Blood. 2008 May 1;111(9):4627-36. Epub 2008 Mar 4. ([DOI Direct Link](#))
- [Rac and Rap GTPase activation assays.](#)
The detection of Ras superfamily GTPase activity in neutrophils is... 21st June, 2008
Department of Immunology, The Scripps Research Institute, La Jolla, CA,- Methods Mol Biol. 2007;412:59-67.
- [Cyclic AMP \(cAMP\)-mediated stimulation of adipocyte differentiation requires the synergistic action of Epac- and cAMP-dependent protein kinase-dependent processes.](#)
Cyclic AMP (cAMP)-dependent processes are pivotal during the early stages... 17th June, 2008
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- [Enhanced cortico-amygdala efficacy and suppressed fear in absence of Rap1.](#)
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Unit on Behavioral Genetics, Laboratory of Molecular Pathophysiology,- J Neurosci. 2008 Feb 27;28(9):2089-98. ([DOI Direct Link](#))
- [The rap GTPases regulate B cell morphology, immune-synapse formation, and signaling by particulate B cell receptor ligands.](#)
B lymphocytes spread and extend membrane processes when searching for... 14th March, 2008
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