

RAC2 Blocking Peptide (C-term)
Synthetic peptide
Catalog # BP21363b**Specification**

RAC2 Blocking Peptide (C-term) - Product InformationPrimary Accession [P15153](#)**RAC2 Blocking Peptide (C-term) - Additional Information****Gene ID** 5880**Other Names**

Ras-related C3 botulinum toxin substrate 2, GX, Small G protein, p21-Rac2, RAC2

Target/Specificity

The synthetic peptide sequence is selected from aa 178-188 of HUMAN RAC2

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RAC2 Blocking Peptide (C-term) - Protein Information**Name** RAC2 ([HGNC:9802](#))**Function**

Plasma membrane-associated small GTPase which cycles between an active GTP-bound and inactive GDP-bound state (PubMed:<<http://www.uniprot.org/citations/30723080>>30723080). In its active state, binds to a variety of effector proteins to regulate cellular responses, such as secretory processes, phagocytosis of apoptotic cells and epithelial cell polarization. Regulatory subunit of the phagocyte NADPH oxidase complex that mediates the transfer of electrons from cytosolic NADPH to O₂ to produce the superoxide anion (O₂⁻) (PubMed:<<http://www.uniprot.org/citations/1660188>>1660188).

Cellular Location

Cytoplasm. Note=Membrane-associated when activated

Tissue Location

Hematopoietic specific.

RAC2 Blocking Peptide (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

RAC2 Blocking Peptide (C-term) - Images

RAC2 Blocking Peptide (C-term) - Background

Plasma membrane-associated small GTPase which cycles between an active GTP-bound and inactive GDP-bound state. In active state binds to a variety of effector proteins to regulate cellular responses, such as secretory processes, phagocytosis of apoptotic cells and epithelial cell polarization. Augments the production of reactive oxygen species (ROS) by NADPH oxidase.

RAC2 Blocking Peptide (C-term) - References

Didsbury J.,et al.J. Biol. Chem. 264:16378-16382(1989).
Puhl H.L. III,et al.Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.
Collins J.E.,et al.Genome Biol. 5:R84.1-R84.11(2004).
Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.
Dunham I.,et al.Nature 402:489-495(1999).