

PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



RAP1GAP Peptide

Cat No.: BS5883P

Background

Rap1 GTPase activating protein (Rap1GAP) specifically stimulates GTP hydrolytic activity of the monomeric G protein Rap1. Physical interaction between $G\alpha_z$, a member of the Gi family of trimeric G proteins, and Rap1GAP blocks the ability of regulators of G protein signaling to stimulate GTP hydrolysis of the α subunit, and also attenuates the ability of activated $G\alpha_z$ to inhibit adenylyl cyclase. Rap1GAP is expressed in the brain, kidney and pancreas and may act as a signal integrator to coordinate and/or integrate Gz signaling and Rap1 signaling in cells. A novel isoform of Rap1 GTPase-activating protein, designated Rap1GAPII, binds specifically to $G\alpha_z$. Stimulation of the Gi-coupled M2 Muscarinic receptor translocates Rap1GAPII from the cytosol to the membrane and decreases the amount of GTP-bound Rap1, resulting in the activation of ERK/MAPK.

Swiss-Prot

P47736

Applications

Blocking

Specificity

This peptide can be used with studies using BS5883 RAP1GAP pAb.

Purification & Purity

Synthetic peptide RAP1GAP. (Note: the amino acid sequence is proprietary). The purity is > 98%.

Product

1 mg/ml in DI water.

Storage & Stability

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Research Use

For research use only, not for use in diagnostic procedure.