

Active $G\alpha_i$

Catalog Number: 26901

Gene Symbol: Gnai

Description: Anti-Active $G\alpha_i$ Mouse Monoclonal Antibody

Background: Heterotrimeric G proteins are critical cellular signal transducers. $G\alpha_i$ represents one sub-family of G proteins that could mediate the inhibition of adenylyl cyclases. Other biochemical and physiological functions of $G\alpha_i$ proteins are being explored.

Immunogen: Recombinant full length protein of active $G\alpha_{i1}$

Tested applications: IP, IHC

Recommended dilutions:

1 μ g for 1~2 mg total cellular proteins

Concentration: 1 mg/ml

Host: mouse

Clonality: Monoclonal

Isotype: IgG1

Purity: Purified from ascites

Format: Liquid

Storage buffer:

Preservative: no

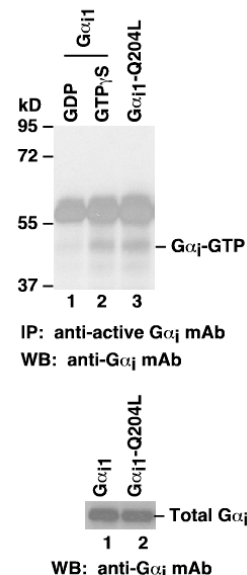
Constituents: PBS (without Mg^{2+} and Ca^{2+}), pH 7.4, 150 mM NaCl, 50% glycerol

Species Reactivity: Anti-active $G\alpha_i$ antibody recognizes active $G\alpha_{i1}$, $G\alpha_{i2}$, and $G\alpha_{i3}$ of vertebrates.

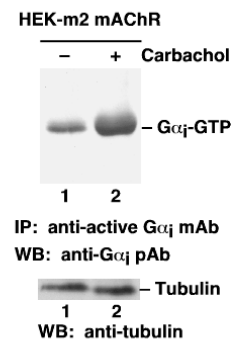
Storage Conditions: Store at $-20^{\circ}C$. Avoid freeze / thaw cycles

Immunoprecipitation/Western blot

A



B



$G\alpha_i$ activation assay. **A.** CHO cells were transfected with wild-type $G\alpha_{i1}$ (lanes 1 and 2) or constitutively active $G\alpha_{i1}$ -Q204L (lane 3). Cell lysates were treated with GDP (lane 1) or GTP γ S (lane 3). Lysates were then incubated with an anti-active $G\alpha_i$ monoclonal antibody (Cat. No. 26901) (top panel). The precipitated active $G\alpha_i$ was immunoblotted with an anti- $G\alpha_i$ monoclonal antibody (Cat. No. 26003). The bottom panel shows the Western blot with anti- $G\alpha_i$ monoclonal antibody (Cat.No. 26003) of the cell lysates. **B.** HEK293 cells stably expressing human m2 mAChR were treated with (lane 2) or without (lane 1) carbachol. Cell lysates were then incubated with an anti-active $G\alpha_i$ monoclonal antibody (Cat. No. 26901) (top panel). The precipitated active $G\alpha_i$ was immunoblotted with an anti- $G\alpha_i$ rabbit polyclonal antibody (Cat. No. 21006). The bottom panel shows the Western blot with anti-tubulin of the cell lysates..