

## 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  $\mu$ 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

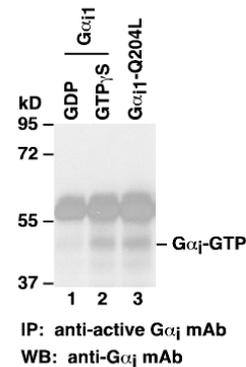
Constituents: PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 50% glycerol

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

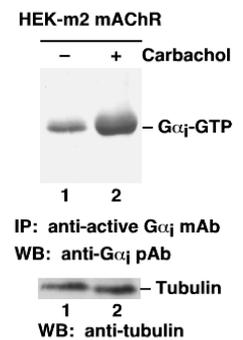
**Storage Conditions:** Store at -20°C. Avoid freeze / thaw cycles

## 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 $\gamma$ 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..

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