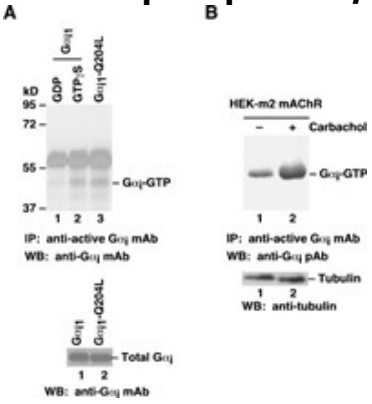
GA_i-GTP

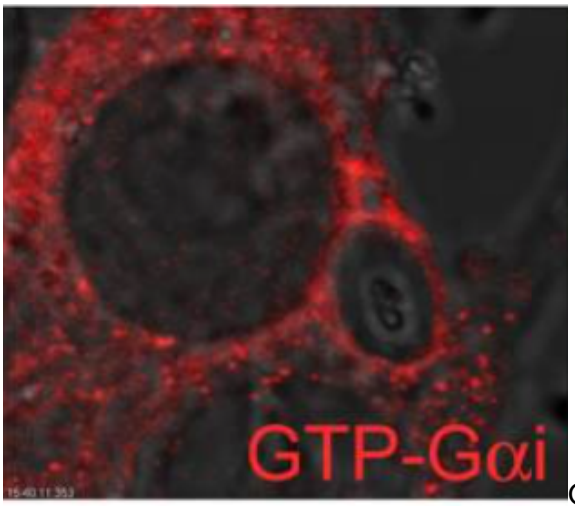
$G\alpha_i$GTP 小鼠单克隆抗体

基因符号: Gnai
描述: $G\alpha_i$-GTP 小鼠单克隆抗体
背景: 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.
免疫原: Recombinant full length protein of active $G\alpha_{i1}$
经过测试的应用: IP, IHC and IF (**Not applicable for WB since SDS denatures $G\alpha_i$ GTPase**)
引用文献的应用: **IP, IHC and IF - Click for Details**
推荐稀释度：
IP: 1 µg for 1~2 mg total cellular proteins
IHC, IF: 1:50-1:250
浓度: 1 mg/ml
种属反应性: Mouse
形式: Liquid
克隆性： Monoclonal
亚型: IgG1
纯化:: Purified from ascites
Preservative: No
成分: PBS (without Mg^{2+} and Ca^{2+}), pH 7.4, 150 mM NaCl, 50% glycerol
种属反应性: active $G\alpha_i$ antibody recognizes active $G\alpha_{i1}$, $G\alpha_{i2}$, and $G\alpha_{i3}$ of vertebrates.
储存条件:: Store at -20°C. Avoid repeated freezing and thawing

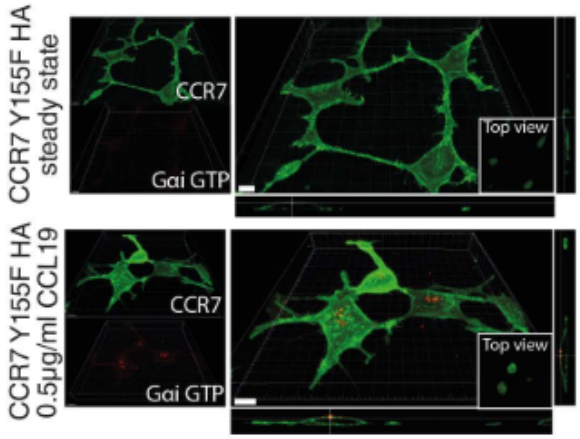
Immunoprecipitation/Western blot:



Gα$_i$ activation assay.
A. CHO cells were transfected with wild type Gα $_{i1}$ (lanes 1 and 2) or constitutively active Gα $_{i1}$-Q204L (lane 3). Cell lysates were treated with GDP(lane 1)or GTPγS (lane 3). Lysates were then incubated with an active Gα $_i$ monoclonal antibody (Cat. No.26901) (top panel). The precipitated active Gα $_i$ was immunoblotted with an Gα $_i$ monoclonal antibody (Cat. No. 26003). The bottom panel shows the Western blot with Gα $_i$ 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 active Gα $_i$ monoclonal antibody (Cat. No. 26901) (top panel).The precipitated active Gα $_i$ was immunoblotted with an Gα $_i$ rabbit polyclonal antibody (Cat. No. 21006). The bottom panel shows the Western blot with tubulin of the cell lysates.



Confocal microcopy images of RAW 264.7 cells expressing YFP-Gαi2QL or YFP-Gαi2 immunostained for GTP-Gαi delineated by phalloidin-Alexa Fluor 647 staining



G-protein activation in HEK293 cells expressing CCR7 variants was visualized by confocal microscopy using an antibody specifically recognizing active, GTP-bound Gαi