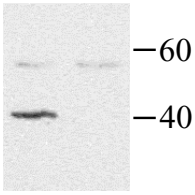
Purified Rabbit Anti-human Gαi2



Human Gαi2 detected by Western blot in transfected HEK293 cells (left lane)

Catalog Number: TP374

Lot Number: 062600

Content: Protein A purified rabbit IgG, 200 μg, with 0.1% sodium azide, lyophilized.

(Reconstitute to 1 mg/ml by adding 200 μl PBS)

Product Description and Usage: For research use only. This polyclonal antibody, which reacts with the $G\alpha i_2$ protein, was generated using *E. coli*-expressed human $G\alpha i_2$ (a.a. 231-351) as an immunogen. The tested titer for Western blot is 1:5,000. The Ab can also be used for immunoprecipitation. Cross-react with $G\alpha i_3$, and partially with $G\alpha i_1$.

Storage Condition: 4°C for short term storage or -20°C in small aliquots for long term storage. Avoid repeated freeze and thaw.

Background: Gαi2 is a 40-41 kDa alpha-subunit of heterotrimeric protein, that shares sequence homology with $G\alpha i_3$ and $G\alpha i_1$. All these G proteins can be ADP-ribosylated at the carboxy terminal Cys of the CAAX sequence, interfering with receptor coupling. $G\alpha i_2$ is expressed widely in tissues and cell lines. Activation of PLC-β by Gαi-coupled receptors is the result of release of Gβγ subunits from Gαi. $G\alpha i_2$ regulates potassium channel activation. Mutation at Arg^{179} has been identified in tumors. This and the Q205L mutant inhibit adenylyl cyclase.

References:

1. Itoh, H, et al. (1988) Presence of three distinct molecular species of Gi protein alpha subunit. Structure of rat cDNAs and human genomic DNAs. *J. Biol. Chem.* 263:6656-64.
2. Blatt C. et al. (1988) Chromosomal localization of genes encoding guanine nucleotide-binding protein subunits in mouse and human. *PNAS* 85:7642-6
3. Lyons, J. et al. (1990) Two G protein oncogenes in human endocrine tumors. *Science* 249:655-9.

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