

## Certificate of Analysis

**Anti-G<sub>q/11</sub>α, CT**  
(rabbit polyclonal IgG)  
Catalog # 06-709  
Lot #

**Immunogen:** KLH-conjugated, synthetic peptide (QLNLKEYNLV) corresponding to amino acids 350-359 of G<sub>11</sub>α or G<sub>q</sub>α. This sequence is highly conserved among species.

**Specificity:** Specific for G<sub>q</sub>α and G<sub>11</sub>α. Does not recognize other non-pertussis toxin-sensitive G proteins.

**Species Cross-reactivity:** Human, mouse, and probably based on sequence homology, all mammalian species.

**Formulation:** 50μl of protein A purified rabbit IgG in PBS, pH 7.4. Frozen solution.

**Storage and Stability:** Stable for 2 years at -20°C from date of shipment.

**Handling Recommendations:** Upon receipt, and prior to removing the cap, centrifuge the vial and gently mix the solution. Aliquot into microcentrifuge tubes and store at -20°C. **Avoid repeated freeze/thaw cycles, which may damage IgG and affect product performance.** Note: Variability in freezer temperatures below -20°C may cause glycerol-containing solutions to become frozen during storage.

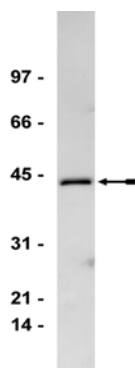
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### Quality Control Testing

**Immunoblot Analysis:** A 1:500-1:2000 dilution of this lot detected G<sub>q</sub>α and G<sub>11</sub>α in 20μg of rat brain microsomal preparation (Catalog # 12-144). A previous lot detected G<sub>q</sub>α and G<sub>11</sub>α in 20μg mouse brain microsomes and membranes and G<sub>q/11</sub> α in 10μg of mouse 3T3/NIH fibroblast soluble plasma membranes.

### Additional Research Applications

**Immunoprecipitation:** This antibody has been reported to immunoprecipitate G<sub>q</sub>α and G<sub>11</sub>α.



#### Immunoblot Analysis :

Representative lot data. Rat brain microsomal preparation was resolved by electrophoresis, transferred to nitrocellulose and probed with anti-G<sub>q/11</sub>α, CT (1:2000 dilution). Proteins were visualized using a goat anti-rabbit secondary antibody conjugated to HRP and a chemi-luminescence detection system. Arrow indicates G<sub>q</sub>α and G<sub>11</sub>α (42kDa).

### Application References:

1. Arthur, J.M., *et al.*, *Am. J. Physiol.* **273**: 129-135, 1997.
2. Gettys, T.W., *et al.*, *Anal. Biochem.* **220**: 82-91, 1994.

### General References:

3. Cote, M., *et al.*, *Endocrinology* **138**: 3299-3307, 1997.
4. Blanc, E.M., *et al.*, *J. Neurochem.* **69**: 570-580, 1997.
5. Gong, M.C., *et al.*, *Mol. Bio. Cell* **8**: 279-286, 1997.
6. Kuhn, B., *et al.*, *Mol. Endocrinol.* **10**: 1697-1707, 1996.
7. Cuq, P., *et al.*, *Eur. J. Pharmacol.* **315**: 213-219, 1996.

### Immunoblot Protocol

1. Perform SDS-polyacrylamide gel electrophoresis (SDS-PAGE) on microsome or membrane sample and transfer the proteins to nitrocellulose. Wash the blotted nitrocellulose twice with water.
2. Block the blotted nitrocellulose in freshly prepared PBS containing 3% nonfat dry milk (Catalog # 20-200), (PBS-MLK) for 30 minutes at room temperature with constant agitation.
3. Incubate the nitrocellulose with a **1:500-1:2000 dilution of anti-G<sub>q/11</sub> $\alpha$ , CT**, diluted in freshly prepared PBS-MLK overnight with agitation at 4°C.
4. Wash the nitrocellulose twice with water.
5. Incubate the nitrocellulose in the secondary reagent of choice (a goat anti-rabbit HRP conjugated IgG, Catalog # 12-348, 1:5000 dilution was used) in PBS-MLK for 1.5 hours at room temperature with agitation.
6. Wash the nitrocellulose twice with water.
7. Wash the nitrocellulose in PBS-0.05% Tween<sup>®</sup>-20 for 3-5 minutes.
8. Rinse the nitrocellulose in 4-5 changes of water.
9. Use detection method of choice (enhanced chemiluminescence was used).

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