

## Datasheet for ABIN6937328

### **anti-GNAQ antibody**



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#### Overview

|              |                                                                       |
|--------------|-----------------------------------------------------------------------|
| Quantity:    | 100 µg                                                                |
| Target:      | GNAQ                                                                  |
| Reactivity:  | Human                                                                 |
| Host:        | Mouse                                                                 |
| Clonality:   | Monoclonal                                                            |
| Conjugate:   | This GNAQ antibody is un-conjugated                                   |
| Application: | ELISA, Immunofluorescence (IF), Flow Cytometry (FACS), Coating (Coat) |

#### Product Details

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen:                  | Recombinant full-length human GNAQ protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Clone:                      | GNAQ-2434                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Isotype:                    | IgG2b kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Specificity:                | GNAQ is 359 amino acids long and is identical in all but 1 amino acid residue to the Mouse protein. Analysis of human genomic DNA revealed an intronless sequence with strong homology to human GNAQ cDNA. In comparison to GNAQ cDNA, this genomic DNA sequence included several small deletions and insertions that altered the reading frame, multiple single based changes, and a premature termination codon in the open reading frame, all hallmarks of a processed pseudogene. Probes derived from human GNAQ cDNA sequence mapped both chromosomes 2 and 9 in higher stringency genomic blot analyses of DNA from a panel of human/rodent hybrid cell lines. |
| Cross-Reactivity (Details): | Human.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## Product Details

Purification: 1.0mg/ml of Ab purified from Bioreactor by Protein A/G.

## Target Details

|                   |                                                                                                                                                                                                                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | GNAQ                                                                                                                                                                                                                                                                                    |
| Alternative Name: | GNAQ ( <a href="#">GNAQ Products</a> )                                                                                                                                                                                                                                                  |
| Background:       | CMC1, G alpha Q, G protein alpha Q, GAQ, guanine nucleotide binding protein (G protein), q polypeptide, Guanine nucleotide-binding protein G(q) subunit alpha, SWS,Guanine nucleotide-binding protein alpha-q / GNAQ / G-ALPHA-q<br>Cellular localisation: Cytoplasmic and Cell Surface |
| Molecular Weight: | 45kDa                                                                                                                                                                                                                                                                                   |
| Gene ID:          | 2776, 269782                                                                                                                                                                                                                                                                            |
| UniProt:          | <a href="#">P50148</a>                                                                                                                                                                                                                                                                  |
| Pathways:         | <a href="#">JAK-STAT Signaling</a> , <a href="#">Thyroid Hormone Synthesis</a> , <a href="#">Myometrial Relaxation and Contraction</a>                                                                                                                                                  |

## Application Details

|                    |                                                                                                                                                                                                                                                                                                                          |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | Known_Application: ELISA (For coating, order Ab without BSA), Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL), Optimal dilution for a specific application should be determined.<br>Positive_Control: HL-60, MOLT-4 and MCF-7 cells. Predominantly expressed in ovary, prostate, testis and colon. |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                    |

## Handling

|                  |                                                                                                 |
|------------------|-------------------------------------------------------------------------------------------------|
| Concentration:   | 1.0 mg/mL                                                                                       |
| Buffer:          | Prepared in 10 mM PBS, WITHOUT BSA and Azide.                                                   |
| Preservative:    | Azide free                                                                                      |
| Storage:         | -20 °C,-80 °C                                                                                   |
| Storage Comment: | Antibody without azide store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. |
| Expiry Date:     | 24 months                                                                                       |