## ARG58910
## anti-GNAI2 antibody

Package: 50 μg
Store at: -20°C

## Summary

| | |
|---|---|
| Product Description | Goat Polyclonal antibody recognizes GNAI2 |
| Tested Reactivity | Hu |
| Predict Reactivity | Ms, Rat, Cow, Pig |
| Tested Application | IHC-P, WB |
| Specificity | This antibody is expected to recognize both reported isoforms (NP_002061.1; NP_001159897.1). |
| Host | Goat |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | GNAI2 |
| Species | Human |
| Immunogen | Synthetic peptide from the internal region of Human GNAI2. (NP_002061.1; NP_001159897.1) (C-PEYTGANKYDE) |
| Conjugation | Un-conjugated |
| Alternate Names | GIP; GNAI2B; H_LUCA15.1; H_LUCA16.1; Guanine nucleotide-binding protein G(i) subunit alpha-2; Adenylate cyclase-inhibiting G alpha protein |

## Application Instructions

| Application table | Application | Dilution |
|---|---|---|
| | IHC-P | 5 μg/ml |
| | WB | 1 - 3 μg/ml |

| | |
|---|---|
| Application Note | WB: Recommend incubate at RT for 1h.<br>IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).<br>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |
| Observed Size | ~ 38 kDa |

## Properties

| | |
|---|---|
| Form | Liquid |
| Purification | Affinity purified |
| Buffer | Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA. |
| Preservative | 0.02% Sodium azide |
| Stabilizer | 0.5% BSA |

| | |
|---|---|
| Concentration | 0.5 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

## Bioinformation

| | |
|---|---|
| Gene Symbol | GNAI2 |
| Gene Full Name | guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2 |
| Background | The protein encoded by this gene is an alpha subunit of guanine nucleotide binding proteins (G proteins). The encoded protein contains the guanine nucleotide binding site and is involved in the hormonal regulation of adenylate cyclase. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2013] |
| Function | Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. The G(i) proteins are involved in hormonal regulation of adenylate cyclase: they inhibit the cyclase in response to beta-adrenergic stimuli. May play a role in cell division. |
| | Isoform sGi2: Regulates the cell surface density of dopamine receptors DRD2 by sequestrating them as an intracellular pool. [UniProt] |
| Calculated Mw | 40 kDa |
| PTM | (Microbial infection) Deamidated at Gln-205 by Photorhabdus asymbiotica toxin PAU_02230, blocking GTP hydrolysis of heterotrimeric GNAQ or GNA11 and G-alphai (GNAI1, GNAI2 or GNAI3) proteins, thereby activating RhoA. [UniProt] |
| Cellular Localization | Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cell membrane. Membrane; Lipid-anchor. Note=Localizes in the centrosomes of interphase and mitotic cells. Detected at the cleavage furrow and/or the midbody. [UniProt] |

## Images
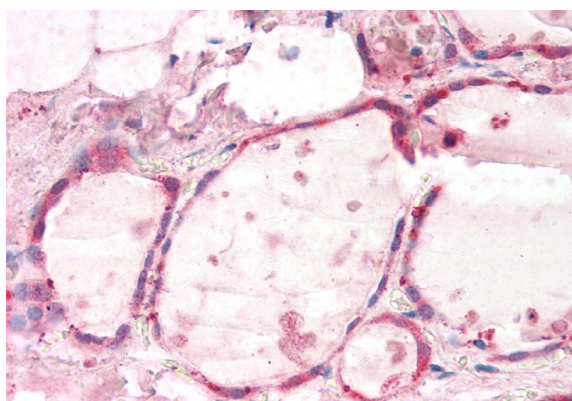


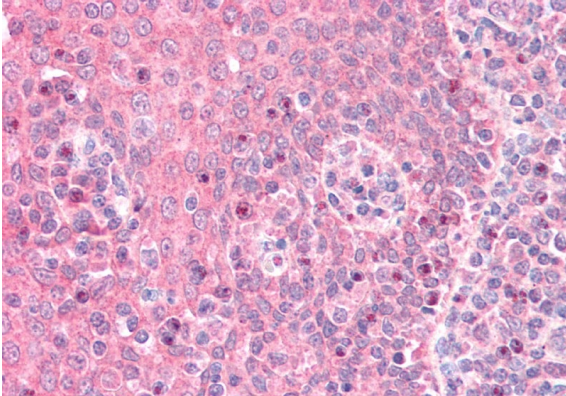ARG58910 anti-GNAI2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human thyroid tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG58910 anti-GNAI2 antibody at 5 µg/ml dilution followed by AP-staining.

## ARG58910 anti-GNAI2 antibody WB image

Western blot: 35 µg of Human peripheral blood lymphocyte lysates (in RIPA buffer) stained with ARG58910 anti-GNAI2 antibody at 2 µg/ml dilution and incubated at RT for 1 hour.

## ARG58910 anti-GNAI2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human tonsil tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG58910 anti-GNAI2 antibody at 5 µg/ml dilution followed by AP-staining.