ARG58922
anti-GNA11 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes GNA11
Tested Reactivity	Hu, Ms
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	GNA11
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 115-146 of Human GNA11.
Conjugation	Un-conjugated
Alternate Names	FHH2; GNA-11; Guanine nucleotide-binding protein G; Guanine nucleotide-binding protein subunit alpha-11; HHC2; G alpha-11; HYPOC2; y; G-protein subunit alpha-11; FBH; FBH2

Application Instructions

Application table

Application	Dilution
ICC/IF	1:25
WB	1:2000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: HeLa

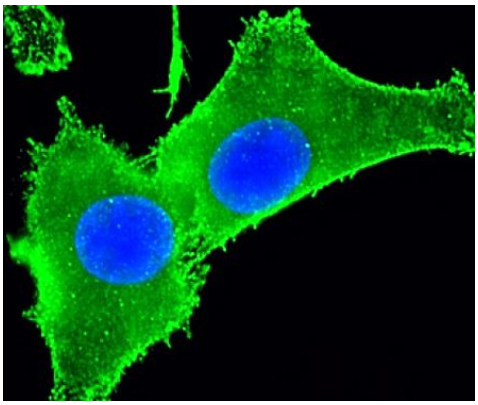
Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide.
Preservative	0.09% (W/V) Sodium azide.
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

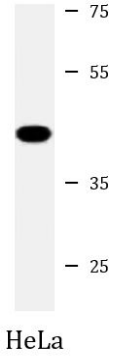
Gene Symbol	GNA11
Gene Full Name	guanine nucleotide binding protein (G protein), alpha 11 (Gq class)
Background	The protein encoded by this gene belongs to the family of guanine nucleotide-binding proteins (G proteins), which function as modulators or transducers in various transmembrane signaling systems. G proteins are composed of 3 units: alpha, beta and gamma. This gene encodes one of the alpha subunits (subunit alpha-11). Mutations in this gene have been associated with hypocalciuric hypercalcemia type II (HHC2) and hypocalcemia dominant 2 (HYPOC2). Patients with HHC2 and HYPOC2 exhibit decreased or increased sensitivity, respectively, to changes in extracellular calcium concentrations. [provided by RefSeq, Dec 2013]
Function	Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. Acts as an activator of phospholipase C. [UniProt]
Calculated Mw	42 kDa
PTM	(Microbial infection) Deamidated at Gln-209 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	Cell membrane; Lipid-anchor. Cytoplasm. Note=In testicular cells, expressed exclusively in the cytoplasm. [UniProt]

Images



ARG58922 anti-GNA11 antibody ICC/IF image

Immunofluorescence: 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized NIH/3T3 cells stained with ARG58922 anti-GNA11 antibody (green) at 1:25 dilution. The nuclear counter stain is DAPI (blue).



ARG58922 anti-GNA11 antibody WB image

Western blot: 20 µg of HeLa cell lysate stained with ARG58922 anti-GNA11 antibody at 1:2000 dilution.