

Recombinant Human GNA11, GST-tagged

Cat. No. GNA11-22H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GNA11(1 a.a. - 359 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	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.
Molecular Mass	68.5 kDa
AA Sequence	MTLESMMACCLSDEVKESKRINAEIEKQLRRDKRDARRELKLLLLGTGESGKSTFIK QMRIIHGAGYSEEDKRGF TKLVYQNIFTAMQAMIRAMETLKILYKYEQNKANALLIRE VDVEKVTTFEHQYVSAIKTLWEDPGIQECYDRRRE YQLSDSAKYLLTDVDRIATLGY LPTQQDVLRLVRVPTTGIIIEYFPDLENIIFRMVDVGGQSRERRKWIHCFENVTS IMFLV ALSEYDQVLVESDNENRMEESKALFRTIITYPWFQNSSVILFLNKKDLLEDKILYSHLV DYFPEFDGPQR DAQAAREFILKMFVDLNPDSKIIYSHFTCATDTENIRFVFAAVKDT

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

ILQLNLKEYNLV

Applications ELISA; WB-Re; AP; Array

Storage Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name GNA11 guanine nucleotide binding protein (G protein), alpha 11 (Gq class) [Homo sapiens (human)]

Official Symbol GNA11

Synonyms GNA11; FBH; FBH2; FHH2; HHC2; GNA-11; HYPOC2; guanine nucleotide binding protein (G protein), alpha 11 (Gq class); guanine nucleotide-binding protein subunit alpha-11; g alpha-11; G-protein subunit alpha-11; guanine nucleotide-binding protein G(y) subunit alpha

Gene ID 2767

mRNA Refseq NM_002067

Protein Refseq NP_002058

MIM 139313

UniProt ID P29992

Chromosome Location 19p13.3

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Pathway	ADP signalling through P2Y purinoceptor 1; Calcium Regulation in the Cardiac Cell; Cholinergic synapse
Function	G-protein beta/gamma-subunit complex binding; G-protein coupled receptor binding; GTP binding

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