

Rabbit GNA11 Polyclonal Antibody | anti-GNA11 antibody

GNA11 Antibody

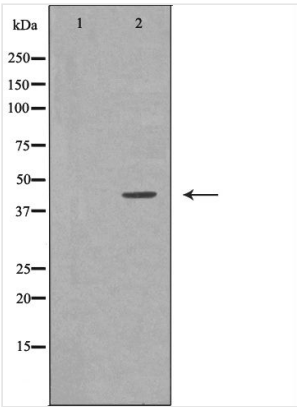
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326813	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

GNA11; Polyclonal Antibody; GNA11 Antibody; G alpha 11; G alpha q; G protein subunit alpha 11; GAQ; GNA 11; GNAQ; Guanine nucleotide binding protein (G protein) alpha 11 (Gq class); Guanine nucleotide binding protein (G protein) alpha 11; Guanine nucleotide binding protein (G protein) q polypeptide; Guanine nucleotide binding protein alpha q; Guanine nucleotide binding protein G(q) subunit alpha; Guanine nucleotide binding protein G(y) subunit alpha; Guanine nucleotide binding protein Gq class GNA11; Guanine nucleotide binding protein subunit alpha 11; anti-GNA11 antibody

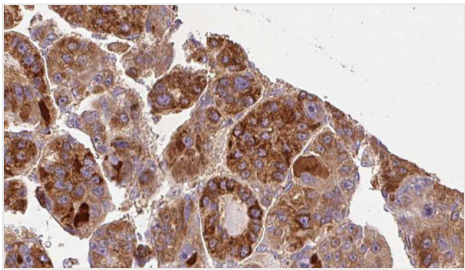
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	GNA11 antibody detects endogenous levels of total GNA11
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	359
Applicable Applications for anti-GNA11 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human GNA11
Subcellular Location	Cell Membrane
Tissue Specificity	Expressed in testis.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



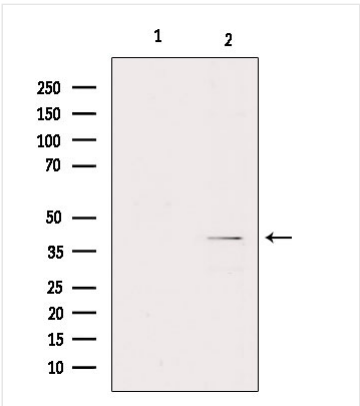
WB (Western Blot)

Western blot analysis of extracts of Leiomyosarcoma tissue, using GNA11 antibody. The lane on the left is treated with the antigen-specific peptide.



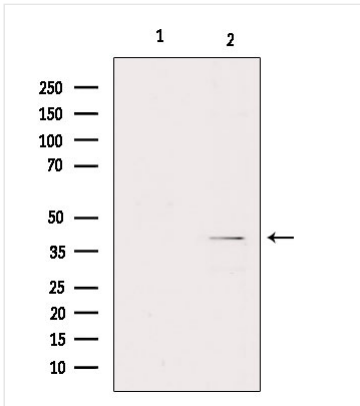
IHC (Immunohistochemistry)

AAA326813 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts from mouse brain, using GNA11 Antibody. Lane 1 was treated with the blocking peptide.



WB (Western Blot)

Western blot analysis of extracts from c476, using GNA11 Antibody. Lane 1 was treated with the blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-GNA11 antibody	Description: Heterotrimeric guanine nucleotide-binding proteins (G proteins) consist of alpha, beta and gamma subunits and mediate the effects of hormones, neurotransmitters, chemokines and sensory stimuli. To date, over 20 known Galpha subunits have been classified into four families, Galpha(s), Galpha(i/o), Galpha(q) and Galpha(12), based on structural and functional similarities (1, 2). Phosphorylation of Tyr356 of Galpha(q)/Galpha(11) is essential for activation of the G protein, since phenylalanine substitution for Tyr356 changes the interaction of Galpha with receptors and abolishes ligand-induced IP3 formation (3). 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. Subunit Structure: G proteins are composed of 3 units; alpha, beta and gamma. The alpha chain contains the guanine nucleotide binding site. Interacts with RGS22. Interacts with NTSR1. Post-translational Modifications: (Microbial infection) Deamidated at Gln-209 by Photorhabdus asymbiotica toxin PAU_02230, blocking GTP hydrolysis of heterotrimeric GNAQ or GNA11 and G-alpha(i) (GNAI1, GNAI2 or GNAI3) proteins, thereby activating RhoA. Similarity: Belongs to the G-alpha family. G(q) subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	115511049
NCBI GeneID	2767
NCBI Accession #	NP_002058.2
NCBI GenBank Nucleotide #	NM_002067.4

UniProt Accession #	P29992 ; O15109 ; Q14350 ; Q6IB00
Molecular Weight	Observed: 42 kDa Predicted: 43 kDa
NCBI Official Full Name	guanine nucleotide-binding protein subunit alpha-11
NCBI Official Synonym Full Names	G protein subunit alpha 11
NCBI Official Symbol	GNA11
NCBI Official Synonym Symbols	FBH; FBH2; FHH2; HHC2; GNA-11; HYPOC2
NCBI Protein Information	guanine nucleotide-binding protein subunit alpha-11
UniProt Protein Name	Guanine nucleotide-binding protein subunit alpha-11
UniProt Gene Name	GNA11
UniProt Synonym Gene Names	GA11; G alpha-11; G-protein subunit alpha-11

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gna11-antibody-immunohistochemistry-western-blot-elisa/326813>