

Product Name: KD-Validated G Protein Subunit Alpha Q Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA00639

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 42.1kDa

Antigen Information

Gene Name	GNAQ
Alternative Names	G Protein Subunit Alpha Q; GAQ; G-ALPHA-Q; Guanine Nucleotide Binding Protein (G Protein), Q Polypeptide; Guanine Nucleotide-Binding Protein G(Q) Subunit Alpha; Guanine Nucleotide-Binding Protein Alpha-Q; Epididymis Secretory Sperm Binding Protein; CMAL; CMC1; SWS
Gene ID	2776.0
SwissProt ID	P50148
Immunogen	A synthesized peptide derived from human GNAQ

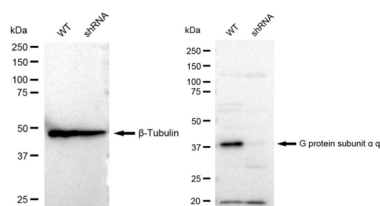
Background

This locus encodes a guanine nucleotide-binding protein. The encoded protein, an alpha subunit in the Gq class, couples a seven-transmembrane domain receptor to activation of phospholipase C-beta. Mutations at this locus have been associated with problems in platelet activation and aggregation. A related pseudogene exists on chromosome 2.[provided by RefSeq, Nov 2010]

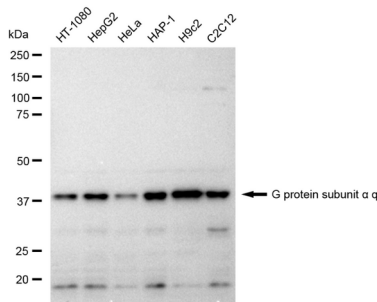
Research Area

Cardiovascular,Signal Transduction

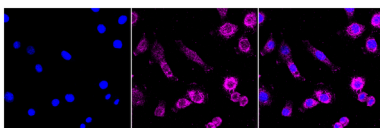
Image Data



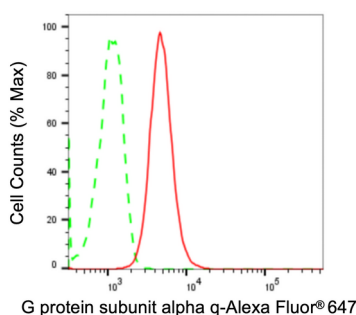
Western blotting analysis using g protein subunit alpha q antibody (KVA00639). G protein subunit alpha q expression in wild type (WT) and g protein subunit alpha q (GNAQ) shRNA knockdown (KD) HeLa cells with 30 µg of Total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with g protein subunit alpha q antibody (KVA00639, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using G protein subunit alpha q antibody (KVA00639). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with G protein subunit alpha q antibody (KVA00639, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with G protein subunit alpha q antibody (KVA00639, 1:1,000). Nuclei were stained blue with DAPI; G protein subunit alpha q was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of g protein subunit alpha q expression in C2C12 cells using g protein subunit alpha q antibody (KVA00639, 1:2,000). Green, isotype control; red, g protein subunit alpha q.