

Product Name: KD-Validated G Protein Subunit Beta 2 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA00667

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: 37.3kDa

Antigen Information

Gene Name	GNB2
Alternative Names	GNB2; Transducin Beta Chain 2; Signal-Transducing Guanine Nucleotide-Binding Regulatory Protein Beta Subunit 2; Guanine Nucleotide Binding Protein (G Protein), Beta Polypeptide 2; Guanine Nucleotide-Binding Protein G(I)/G(S)/G(T) Beta Subunit 2; Guanine Nucleotide-Binding Protein G(I)/G(S)/G(T) Subunit Beta-2; G Protein, Beta-2 Subunit; G Protein Subunit Beta-2; Heterotrimeric Guanine Nucleotide-Binding Protein 2C1; Epididymis Secretory Sperm Binding Protein; SSS4; NEDHYDF; HG2C1;SSS4
Gene ID	2783.0
SwissProt ID	P62879
Immunogen	A synthesized peptide derived from human GNB2

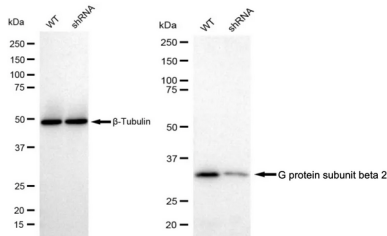
Background

Heterotrimeric guanine nucleotide-binding proteins (G proteins), which integrate signals between receptors and effector proteins, are composed of an alpha, a beta, and a gamma subunit. These subunits are encoded by families of related genes. This gene encodes a beta subunit. Beta subunits are important regulators of alpha subunits, as well as of certain signal transduction receptors and effectors. This gene contains a trinucleotide (CCG) repeat length polymorphism in its 5' UTR. [provided by RefSeq, Jul 2008]

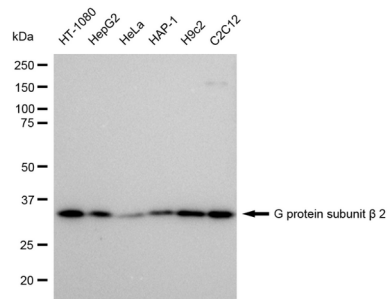
Research Area

Signal Transduction,Cancer,Metabolism

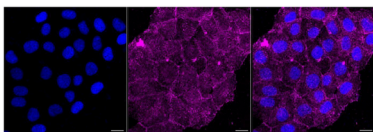
Image Data



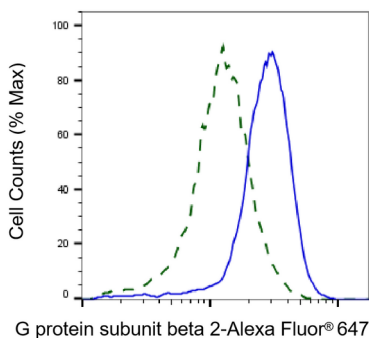
Western blotting analysis using G protein subunit beta 2 antibody (KVA00667). G protein subunit beta 2 expression in wild type (WT) and G protein subunit beta 2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with G protein subunit beta 2 antibody (KVA00667, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



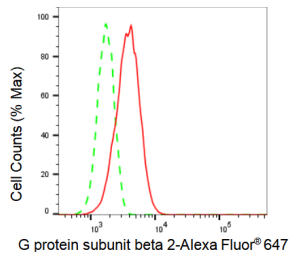
Western blotting analysis using G protein subunit beta 2 antibody (KVA00667). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with G protein subunit beta 2 antibody (KVA00667, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with G protein subunit beta 2 antibody (KVA00667, 1:1,000). Nuclei were stained blue with DAPI; G protein subunit beta 2 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.



Validation of G protein subunit beta 2 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with G protein subunit beta 2 antibody (KVA00667, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of G protein subunit beta 2 expression in HT-1080 cells using G protein subunit beta 2 antibody (KVA00667, 1:2,000). Green, isotype control; red, G protein subunit beta 2.