[KD Validated] Anti-GNB2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R020740

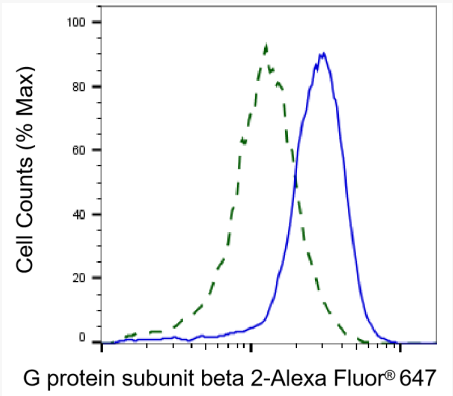
Product Information

Application	WB, FC, IF (Cell)/ICC
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:5,000; FC 1:200~1:2,000; IF 1:100~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	11J12T61
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human GNB2
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-GNB2 Rabbit mAb [11J12T61] is for research use only and not for use in diagnostic or therapeutic procedures.

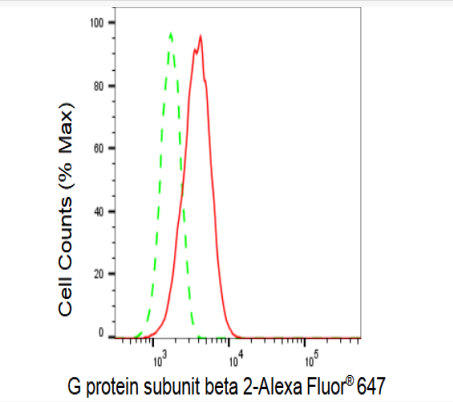
Protein Information

Synonyms	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.
Calculated MW	Calculated MW: 37 kDa, Observed MW: 35 kDa
Uniprot ID	P62879
Gene ID	2783
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]
Cellular Location	Cytoplasm > perinuclear region.

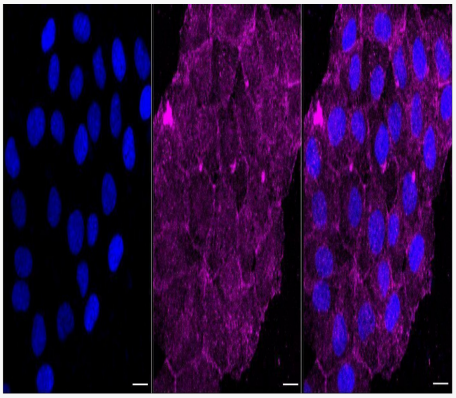
Validation Images



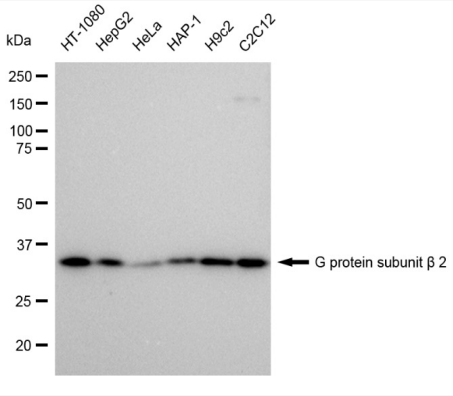
Validation of G protein subunit beta 2 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with G protein subunit beta 2 antibody (R020740, 1:2,000) and analyzed using BD flow cytometer.



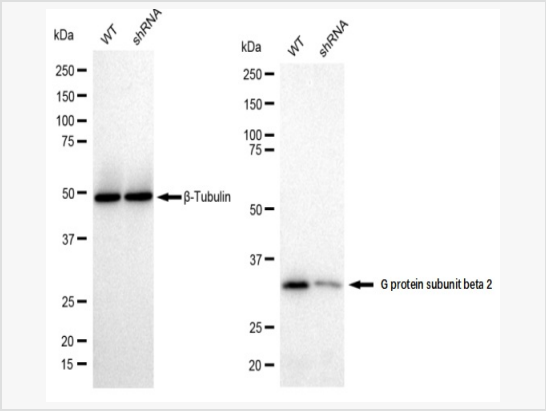
Flow cytometric analysis of G protein subunit beta 2 expression in HT-1080 cells using G protein subunit beta 2 antibody (R020740, 1:2,000). Green, isotype control; red, G protein subunit beta 2.



Immunocytochemical staining of HT-1080 cells with G protein subunit beta 2 antibody (R020740, 1:1,000) . Nuclei were stained blue with DAPI; G protein subunit beta 2n 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.



Western blotting analysis using G protein subunit beta 2 antibody (R020740). 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 (R020740, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using G protein subunit beta 2 antibody (R020740). 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 (R020740, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.