- DATASHEET -

Host: Rabbit

Clonality: Polyclonal

Target: G protein alpha 16

Purification: affinity purified by Protein A

alpha 16: 301-374/374.

GenelD: 2769

Concentration: 1mg/ml

[Primary Antibody]

Isotype: IgG

SWISS: P30679

G protein alpha 16 Rabbit pAb



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Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500)

Reactivity: Human, Rat (predicted: Mouse, Rabbit, Pig, Sheep, Cow, Dog, Horse)

Predicted MW.: 44 kDa

Subcellular Location: Cell membrane

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. Background: Heterotrimeric G proteins function to relay information from cell surface receptors to intracellular effectors (1). Each of a very broad range of receptors specifically detects an extracellular stimulus (a photon, pheromone, odorant, hormone or neurotransmitter) while the effectors (i.e., adenylyl cyclase), which act to generate one or more intracellular messengers, are less numerous. In mammals, G protein alpha, Beta and Gamma polypeptides are encoded by at least 16, 4 and 7 genes, respectively (2-5). Most interest in G proteins has been focused on their a subunits, since these proteins bind and hydrolyze GTP and most obviously regulate the activity of the best studied effectors. Four distinct classes of G alpha subunits have been identified; these include Gs, Gi, Gq and Ga $\frac{12}{13}$ (3,4). The Gi class comprises all the known a subunits that are susceptible to pertussis toxin modifications, including Ga i-1, Ga i-2, Ga i-3, Ga o, Ga t1, Ga t2, Ga z and Ga gust (4). Of these, the three Ga i subtypes function to open atrial potassium channels (6). Ga 16 is a member of the Gq subfamily and is expressed specifically in hematopoietic cells (7).

Immunogen: KLH conjugated synthetic peptide derived from human G protein

– VALIDATION IMAGES



Sample: Mcf-7 (human)cell Lysate at 40 ug Primary: Anti- G protein alpha 16 (bs-13248R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 44 kD Observed band size: 47 kD



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GNA15) Polyclonal Antibody, Unconjugated (bs-13248R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: Rat brain tissue; 4% Paraformaldehyde-fixed and paraffinembedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-GNA15 Polyclonal Antibody, Unconjugated(bs-13248R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining