

GNAS polyclonal antibody

Catalog: BS7430

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

There are four subclasses of G α protein, G α s, G α i/o, G α q/11, and G α 12/13, and each is linked to a unique signaling pathway. G α s is encoded by the GNAS gene. This G protein subunit is associated with a wide spectrum of disorders. The GTP bound G α s activates adenylyl cyclase, which catalyzes the conversion of ATP into the second messenger cAMP and initiates the downstream PKA pathway. Mutations on residue Arg201 or Gln227 result in loss of GTP hydrolase activity, leading to constitutive activation of G α s, which contributes to tumor progression, fibrous dysplasia of bone, and McCune-Albright syndrome, a disorder that causes abnormal skin pigmentation, scar tissue formation on bone, and growth-regulating gland malfunction. Heterozygous loss-of-function mutations in G α s lead to Albright hereditary osteodystrophy (AHO), a disease characterized by short stature, obesity, brachydactyly, subcutaneous ossification, and dental deficits.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 50 kDa

Swiss-Prot:

P63092

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:1000~1:2000

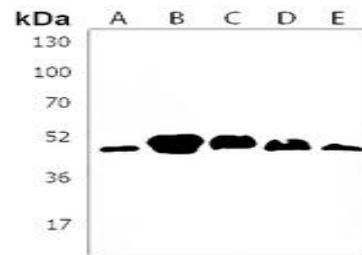
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

GNAS polyclonal antibody detects endogenous levels of GNAS protein.

DATA:



Western blot analysis of GNAS expression in HepG2 (A), Raji (B), mouse brain (C), rat brain (D), human cerebellum (E) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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