GCS-β-1 (V21) polyclonal antibody

Catalog: BCP00815 Host: Rabbit Reactivity: Human,Mouse,Rat

BackGround:

Guanylate cyclases belong to the adenylyl cyclase class-4/guanylyl cyclase family. There are two forms of guanylate cyclase, a soluble form (GCS or sGC), which act as receptors for nitric oxide and a membrane-bound receptor form (GC), which are peptide hormone receptors. The GC-C protein is composed of an extracellular domain, a single transmembrane domain, and a cytoplasmic region consisting of a kinase-like domain and a catalytic domain. It is expressed as two differentially glycosylated forms, a 130 kDa precursor form present in the endoplasmic reticulum and a 145 kDa form present on the plasma membrane. Ligand binding to the extracellular domain of GC-C promotes the accumulation of cGMP. GC-C acts as the receptor for heatstable enterotoxins, small peptides secreted by some pathogenic strains of E. coli that cause severe secretory diarrhea. GC-C also binds to guanylin and uroguanylin peptides, which modulate renal function in response to oral salt load.

Product:

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

Molecular Weight:

~ 70 kDa

Swiss-Prot:

Q02153

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: 1:500~1:1000

IHC: 1:50~1:200

IP: 1:50~1:200

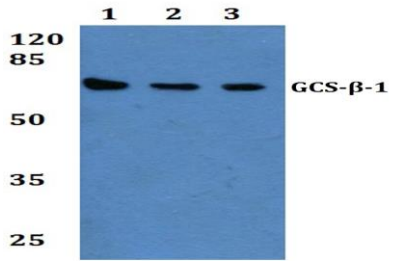
Storage&Stability:

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

Specificity:

GCS-β-1 (V21) polyclonal antibody detects endogenous levels of Guanylate Cyclase β1/3 protein.

DATA:

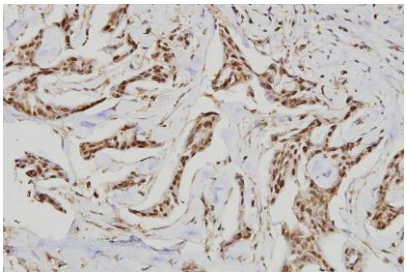


Western blot (WB) analysis of GCS-β-1 (V21) polyclonal antibody at 1:500 dilution

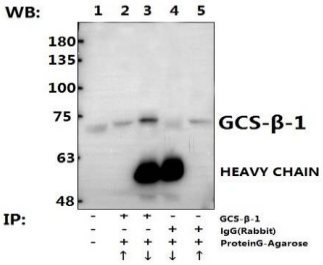
Lane1:THP-1 whole cell lysate

Lane2:sp2/0 whole cell lysate

Lane3:H9C2 whole cell lysate



Immunohistochemistry (IHC) analyzes of GCS-β-1 (V21) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.



Immunoprecipitation of the Brain tissue lysate of Mouse using GCS-β-1 (V21) pAb (Sepharose Bead Conjugate) #BD0048(lane 2 and lane 3) and Nonspecific IgG Control (Sepharose Bead Conjugate)#BD0048 (lane 4 and lane 5) .Lane 1 is 30% input. The western blot was probed using GCS-β-1 (V21) pAb. “↑” (supernatant); “↓” (deposition)

Note:

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

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