

GCS- α -1 (D423) polyclonal antibody

Catalog: BS3670

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:

1 mg/ml in Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.2.

Molecular Weight:

~ 77 kDa

Swiss-Prot:

Q02108

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

Storage&Stability:

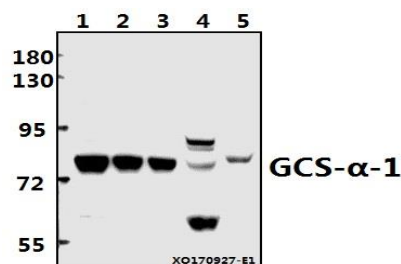
Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

Specificity:

GCS- α -1 (D423) polyclonal antibody detects endogenous levels of GCS- α -1 protein.

DATA:



Western blot (WB) analysis of GCS- α -1 (D423) pAb at 1:500 dilution

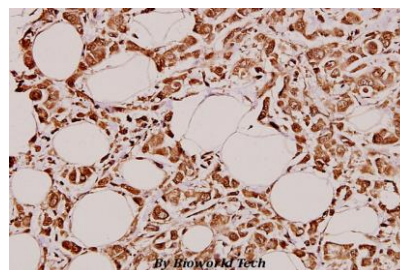
Lane1:PC3 whole cell lysate(20ug)

Lane2:A549 whole cell lysate(20ug)

Lane3:HEK293T whole cell lysate(20ug)

Lane4:PMVEC whole cell lysate(40ug)

Lane5:The Brain tissue lysate of Mouse(40ug)



Immunohistochemistry (IHC) analyzes of GCS- α -1 (D423) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.

Note:

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

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