



PRODUCT DATA SHEET

Bioworld Technology, Inc.

GPR4 polyclonal antibody

Catalog: BS31224

Host: Rabbit

Reactivity: Human, Rat

BackGround:

G protein-coupled receptor 4: Proton-sensing G protein-coupled receptor activated by extracellular pH, which is required to monitor pH changes and generate adaptive reactions. Activated by an optimal pH of 6.8-7.2. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors, such as adenylate cyclase. GPR4 is mainly coupled to G(s) G proteins and mediates activation of adenylate cyclase activity. May also couple with G(i), G(q) and G(12)/G(13) G proteins. Acts as a key regulator of respiratory sensitivity to CO₂/H⁺ in brain retrotrapezoid nucleus neurons: acts by mediating detection of protons generated by the formation of carbonic acid in the blood, an important mechanism to impulse to breathe (By similarity). Also acts as a regulator of acid secretion in the kidney collecting duct by maintaining...

Product:

1mg/ml in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~41.0 kDa

Swiss-Prot:

P46093

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/2000)

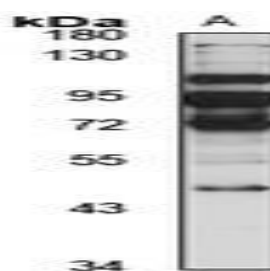
Storage&Stability:

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

Specificity:

Recognizes endogenous levels of GPR4 protein

DATA:



Western blot analysis of CRX expression in Y79 (A) whole cell lysates.

Note:

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

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