

## RGS10 polyclonal antibody

Catalog: BS5895

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Heterotrimeric G proteins function to relay information from cell surface receptors to intracellular effectors. In mammals, G protein  $\alpha$ ,  $\beta$  and  $\gamma$  polypeptides are encoded by at least 16, 4 and 7 genes, respectively. Most interest in G proteins has been focused on their  $\alpha$  subunits, since these proteins bind and hydrolyze GTP and most obviously regulate the activity of the best studied effectors. Four  $G\alpha$  GTPase-activating proteins (GAPs) have been identified and are designated RGS1 (regulator of G protein signaling), RGS4, RGS10 and GAIP ( $G\alpha$ -interacting protein). Each of these proteins has been shown to deactivate specific  $G\alpha$  isoforms by increasing the rate at which they convert GTP to GDP. RGS1, RGS4 and GAIP bind tightly to and exhibit GAP activity towards  $G\alpha_i$ ,  $G\alpha_o$  and  $G\alpha_t$ , but not  $G\alpha_s$ . RGS10 increases the GTP hydrolytic activity of several members of the  $G\alpha_i$  sub-family, including  $G\alpha_{i-3}$ ,  $G\alpha_z$  and  $G\alpha_o$ .

### Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

### Molecular Weight:

~ 20 kDa

### Swiss-Prot:

O43665

### 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

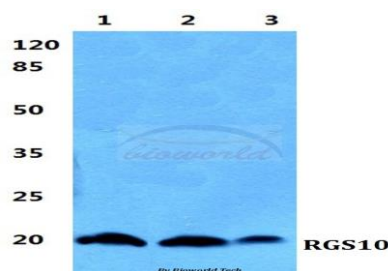
### Storage&Stability:

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

### Specificity:

RGS10 polyclonal antibody detects endogenous levels of RGS10 protein.

### DATA:

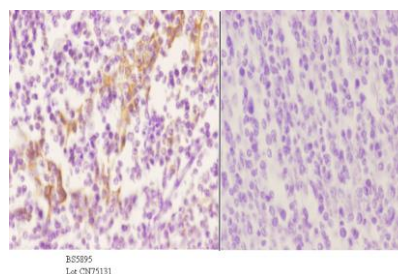


Western blot (WB) analysis of RGS10 polyclonal antibody at 1:500 dilution

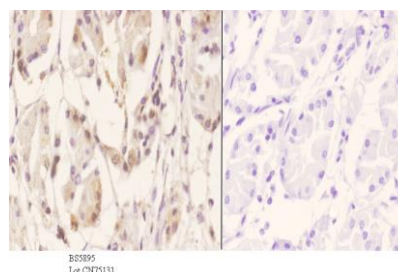
Lane1:Hela cell lysate

Lane2:Raw264.7 cell lysate

Lane3:H9C2 cell lysate



Immunohistochemistry (IHC) analyzes of RGS10 pAb in paraffin-embedded human tonsil carcinoma tissue at 1:50. showing cytoplasmic and nucleus staining. Negative control (the right) Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.



Immunohistochemistry (IHC) analyzes of RGS10 pAb in paraffin-embedded human stomach carcinoma tissue at 1:50. showing cyto-

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## PRODUCT DATA SHEET

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plasmic and nucleus staining. Negative control (the right) Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.

### Note:

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

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