bs-2963R **[Primary Antibody]**

KCNK3 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3777 **SWISS:** O14649

Target: KCNK3

Immunogen: KLH conjugated synthetic peptide derived from human KCNK3: 181-280/394.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: KCNK9 or TASK-3 (TWIK-related Acid sensitive K+ channel) is a member of the potassium channel family of proteins that contain two-pore domain and four transmembrane domains. These channels are characterized as leak K+ channels that are sensitive to changes in the extracellular pH. The physiological functions of TASK channels are largely unknown; it has been proposed that they may be involved in the regulation of breathing, aldosterone secretion and anesthetic-mediated neuronal activity. They were found to act in neurons' membrane potential and in resting K+ currents. KCNK9 gene has been localized to the chromosomal region 8q24. The protein is expressed at high levels mainly in the brain and at low levels in other tissues. In contrast to normal tissues, it was found that KCNK9 is amplified in some human carcinomas such as breast, lung, colon and metastatic prostate. In 10% of breast cancer patients this gene is amplified, and in 44% the protein is over expressed. Monoclonal antibodies to KNCK9 are an important tool for studying the potassium channel family of proteins in different tissues.

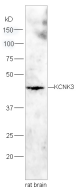
Applications: **WB** (1:500-2000)

Reactivity: Rat (predicted: Human, Mouse, Cow, Dog)

Predicted MW.: 43 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Brain (Rat) Lysate at 40 ug Primary: Anti-KCNK3 (bs-2963R) at 1/300 dilution Secondary: HRP conjugated Goat-Anti-rabbit IgG (bs-0295G-HRP) at 1/5000 dilution Predicted band size: 43 kD Observed band size: 43 kD