bs-3641R **[Primary Antibody]**

SUR1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 6833 **SWISS:** Q09428

Target: SUR1

Immunogen: KLH conjugated synthetic peptide derived from human SUR1: 301-400/1581.

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: SUR1 is a member of ATP binding cassette super family. SUR receptor confers the sensitivity of Kir6.2 to ATP/ADP sensitivity and to pharmacological agents such as sulfonylurea and diazoxide that close or open the KATP channels. The persistent heyperinsulinimic hypoglycemia in infancy (PHHI) is familial disorder due to defect in negative feed back in response to low glucose levels. SUR1 was mapped on chromosome 11p14-15.1, the same location where the gene for PHHI is located. It has been shown that the expression of Kir6.2 and SUR1 are regulated by glucose levels and the actives of glucogon like peptide receptor 1. Abnormal insulin secretion in PHHI appears to be caused by mutations in the SUR gene.

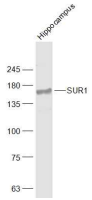
Applications: **WB** (1:500-2000)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Cow, Horse)

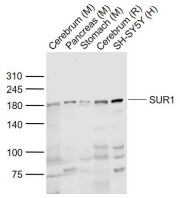
Predicted MW.: 175 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Hippocampus (Mouse) Lysate at 40 ug Primary: Anti-SUR1 (bs-3641R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 175 kD Observed band size: 175 kD



Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 ug Lane 2: Pancreas (Mouse) Lysate at 40 ug Lane 3: Stomach (Mouse) Lysate at 40 ug Lane 4: Cerebrum (Rat) Lysate at 40 ug Lane 5: SH-SY5Y (Human) Cell Lysate at 30 ug Primary: Anti-SUR1 (bs-22836R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 177 kD Observed band size: 180 kD

SELECTED CITATIONS

- **[IF=0.91]** Horii K et al. ATP-dependent potassium channels contribute to motor regulation of esophageal striated muscle in rats. J Vet Med Sci. 2019 Jul 9. IHC ;Rat. 31292350