bs-13446R **[Primary Antibody]**

phospho-Glycogen synthase 1 (Ser645) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2997 **SWISS:** P13807

Target: Glycogen synthase 1 (Ser645)

Immunogen: KLH conjugated synthesised phosphopeptide derived from human Glycogen synthase 1 around the phosphorylation site of Ser645: PP(p-S)PS.

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: Glycogen Synthase (GS) is a key enzyme in the regulation of glycogen metabolism. GS catalyzes the incorporation of UDP-glucose incorporation into glycogen. The activity of glycogen synthase is regulated by hormonal stimuli (insulin, catecholamines and glucagons) and non-hormonal stimuli (blood glucose level and exercise). Two main isoforms of mammalian GS are designated as muscle (glycogen synthase 1) and liver (glycogen synthase 2). Most tissues express glycogen synthase 1, whereas glycogen synthase 2 appears to be tissue-specific. The two isoforms have 70% identical amino acid sequence. Glycogen synthase can be phosphorylated by multiple kinases including glycogen synthase kinase-3 (GSK-3), mitogen-activated protein kinase-related protein kinase (DYRK), and SAPK2b/p38b which leads to its inactivation.

Applications: **ELISA** (1:5000-10000)

Reactivity: (predicted: Human, Mouse, Rat, Pig, Sheep, Dog, Horse)

Predicted MW.: 85 kDa

Subcellular Location: Cytoplasm

SELECTED CITATIONS

- **[IF=2.238]** Liu GZ et al. Aldosterone stimulation mediates cardiac metabolism remodeling via Sirt1/AMPK signaling in canine model.Naunyn Schmiedebergs Arch Pharmacol. 2019 Mar 9. IHC ;Dog. 30852656