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## GTP binding protein REM1 Rabbit pAb

Catalog Number: bs-7502R

Target Protein: GTP binding protein REM1

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000)

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

Predicted MW: 33 kDa

Entrez Gene: 28954

Swiss Prot: O75628

Source: KLH conjugated synthetic peptide derived from human REM/GTP binding protein REM1: 221-298/298.

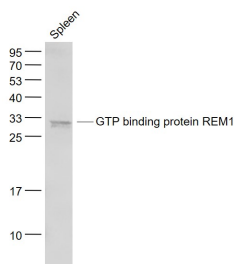
Purification: affinity purified by Protein A

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:** REM (Rad and Gem related GTP binding protein) is a member of the Rad/Gem/Kir subfamily of Ras-like GTPases and shares with other members of this subfamily some unusual structural features. Among these are nonconservative amino acid substitutions within guanine nucleotide binding and hydrolysis domains, unique effector domains, extended N- and C-termini, and a conserved C-terminal sequence thought to mediate membrane association but lacking a classical isoprenylation motif. REM, with a predicted molecular weight of 32.9 kDa, is most highly expressed in cardiac muscle and is expressed at more moderate levels in lung, kidney and skeletal muscle. REM is phosphorylated in vivo and has been shown to interact with several 14-3-3 isoforms. It has been reported that the GTP-bound form of a related Ras-like GTPase, GEM/kir, inhibits high-voltage activated Ca<sup>2+</sup> channel activities by interacting directly with the  $\beta$ -subunit. The reduced channel activities are the result of a decreased  $\alpha$ -subunit expression at the plasma membrane. This inhibition of L-type Ca<sup>2+</sup> channels prevents Ca<sup>2+</sup>-triggered exocytosis in hormone-secreting cells. There are data that suggest that REM similarly regulates Ca<sup>2+</sup> channel expression.

# VALIDATION IMAGES



Sample: Spleen (Mouse) Lysate at 40 ug Primary: Anti- GTP binding protein REM1 (bs-7502R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 33 kD  
Observed band size: 32 kD