**bs-3636R** **[ Primary Antibody ]**

# CAB39 Rabbit pAb

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## DATASHEET

**Host:** Rabbit **Isotype:** IgG1, k

**Clonality:** Polyclonal

**GeneID:** 51719 **SWISS:** Q9Y376

**Target:** CAB39

**Immunogen:** KLH conjugated synthetic peptide derived from human MO25 alpha/CAB39: 201-300/341.

**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:** ouse protein 25 alpha (MO25 alpha, CAB39) is a 40-kDa protein that, together with the STE20-related adaptor-alpha (STRAD alpha) pseudo kinase, forms a regulatory complex capable of stimulating the activity of the LKB1 tumor suppressor protein kinase. The latter is mutated in the inherited Peutz-Jeghers cancer syndrome (PJS). CAB39 binds directly to a conserved Trp-Glu-Phe sequence at the STRAD alpha C terminus, markedly enhancing binding of STRAD alpha to LKB1 and increasing LKB1 catalytic activity. Skeletal muscle contraction results in the phosphorylation and activation of the AMP-activated protein kinase (AMPK) by an upstream kinase (AMPKK). The LKB1-STE-related adaptor (STRAD)-mouse protein 25 (MO25) complex is the major AMPKK in skeletal muscle; however, LKB1-STRAD-MO25 activity is not increased by muscle contraction. This relationship suggests that phosphorylation of AMPK by LKB1-STRAD-MO25 during skeletal muscle contraction may be regulated by allosteric mechanisms.

**Applications:** **IHC-P** (1:100-500)
**IHC-F** (1:100-500)
**IF** (1:100-500)
**ELISA** (1:5000-10000)

**Reactivity:** (predicted: Human, Mouse, Rat, Rabbit, Pig, Cow, Chicken, Dog, Horse)

**Predicted MW.:** 38 kDa

**Subcellular Location:** Cytoplasm

## SELECTED CITATIONS

- **[IF=5.1]** G.F. Sengül. et al. Hsc70 phosphorylation patterns and calmodulin regulate AP2 Clathrin-Coated-Vesicle life span for cell adhesion protein transport. BBA-MOL CELL RES. 2024 Jan;1871:119611 WB ;Mouse. 37926156