

## MO25 monoclonal antibody

Catalog: MB67258

Host: Mouse

Reactivity: Human, Mouse

### BackGround:

AMPK (AMP-activated protein kinase) is a key cellular component that regulates energy homeostasis. When the AMP/ATP ratio is increased due to energy depletion, AMPK is phosphorylated at its  $\alpha 1$  and  $\alpha 2$  catalytic subunits and activated. Studies showed that the tumor suppressor LKB1 phosphorylates and activates AMPK in mammals. MO25 $\alpha$  (mouse protein 25 $\alpha$ ), also called CAB39 (calcium binding protein 39), is a component of the LKB1 complex in vivo. MO25 $\alpha$ /CAB39 does not directly interact with LKB1; instead, it is physically associated with STRAD $\alpha$ . Together MO25 $\alpha$ /CAB39 and STRAD $\alpha$  help anchor LKB1 in the cytoplasm. MO25 $\alpha$ /CAB39 stabilizes the LKB1-STRAD $\alpha$  complex and further increases the catalytic activity of LKB1.

### Product:

Mouse IgG1 kappa. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

### Molecular Weight:

~ 35 kDa

### Swiss-Prot:

Q9Y376

### Purification&Purity:

This antibody is purified through a protein G column.

### Applications:

WB (1/500 - 1/1000)

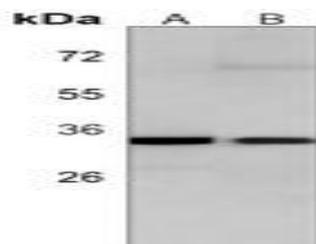
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

Recognizes endogenous levels of MO25 protein.

### DATA:



Western blot analysis of MO25 expression in K562 (A), mouse brain (B) whole cell lysates.

### Note:

For research use only, not for use in diagnostic procedure.

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