

## EIF4B monoclonal antibody

Catalog: MB66938

Host: Mouse

Reactivity: Human

### BackGround:

Eukaryotic initiation factor 4B is thought to assist the eIF4F complex in translation initiation. In plants, eIF4B is known to interact with the poly-(A) binding protein, increasing its poly-(A) binding activity. Heat shock and serum starvation cause dephosphorylation of eIF4B at multiple sites with kinetics similar to those of the corresponding inhibition of translation, while phosphorylation of eIF4B following insulin treatment correlates well with an observed increase in translation. Multiple kinases, including p70 S6 kinase, can phosphorylate eIF4B in vitro, and at least one serum-inducible eIF4B phosphorylation site is sensitive to rapamycin and LY294002. Recently, Ser406 was identified as a novel phosphorylation site regulated by mitogens, and the phosphorylation of this site is dependent on MEK and mTOR activity. This phosphorylation is shown to be essential for the translational activity of eIF4B.

### Product:

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

### Molecular Weight:

~ 75 kDa

### Swiss-Prot:

P23588

### 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 EIF4B protein.

### DATA:



Western blot analysis of EIF4B expression in A431 (A), HeLa (B) whole cell lysates.

### Note:

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

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