

# **CHIP** monoclonal antibody

Catalog: MB67252

Host: M

Mouse

Reactivity: Human, Mouse

## **BackGround:**

The carboxy terminus of Hsc70-interacting protein (CHIP, STUB1) is a co-chaperone protein and functional E3 ubiquitin ligase that links the polypeptide binding activity of Hsp70 to the ubiquitin proteasome system. Cytoplasmic CHIP protein contains three 34-amino acid TPR (tetratricopeptide repeat) domains at its amino terminus and a carboxy-terminal U-box domain. CHIP interacts with the molecular chaperones Hsc70-Hsp70 and Hsp90 through its TPR domain, while E3 ubiquitin ligase activity is confined to the U-box domain. The binding of CHIP to Hsp70 can stall the folding of Hsp70 client proteins and concomitantly facilitate the U-box dependent ubiquitination of Hsp70-bound substrates. CHIP appears to play a central role in cell stress protection and is responsible for the degradation of disease-related proteins that include cystic fibrosis transmembrane conductance regulator, p53, huntingtin and Ataxin-3, Tau protein, and α-synuclein.

#### **Product:**

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

**Molecular Weight:** 

~ 32 kDa

**Swiss-Prot:** 

## Q9UNE7

Purification&Purity:

This antibody is purified through a protein G column.

Applications:

WB (1/1000 - 1/2000)

**Storage&Stability:** 

Store at  $4 \,^{\circ}{\rm C}$  short term. Aliquot and store at  $-20 \,^{\circ}{\rm C}$  long term. Avoid freeze-thaw cycles.

## **Specificity:**

Recognizes endogenous levels of CHIP protein.

## **DATA:**



Western blot analysis of CHIP expression in 293 (A), Hela (B), HepG2 (C), L929 (D) whole cell lysates.

#### Note:

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

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