

# **ECT2** monoclonal antibody

Catalog: MB67210

Host: Mouse

Reactivity: Human

### **BackGround:**

Epithelial cell transforming sequence 2 (ECT2), a guanine nucleotide exchange factor (GEF), catalyzes the exchange of GDP for GTP. The nuclear GEF activity of ECT2 is essential for Kras-Trp53 lung tumorigenesis. This transformation requires ECT2-mediated rRNA synthesis. In addition, PKCt-dependent phosphorylation of ECT2 is necessary for the oncogenic activity of this protein. Furthermore, ECT2 has been implicated as a cancer driver gene in certain subtypes of liver cancers. Research studies also show that, during matrix-directed cell migration, low membrane tension stimulates the formation of caveolae at the rear end of moving cells. ECT2 is recruited to the caveolae and activates RhoA, causing F-actin organization and rear retraction.

**Product:** 

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

**Molecular Weight:** 

~ 104 kDa

**Swiss-Prot:** 

Q9H8V3

**Purification&Purity:** 

## This antibody is purified through a protein G column.

**Applications:** 

WB (1/500 - 1/1000)

**Storage&Stability:** 

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

#### **Specificity:**

Recognizes endogenous levels of ECT2 protein.

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#### DATA:

Da	~
250	
130	
95	-
70	
55	

Western blot analysis of ECT2 expression in 293T (A) whole cell lysates.

#### Note:

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

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