

## Mouse Monoclonal Antibody to ERK2

Catalogue Number	sAP-0073
Target Molecule	<b>Name: ERK2</b> <b>Aliases:</b> ERK; p38; p40; p41; ERT1; MAPK2; PRKM1; P42MAPK; p41mapk; MAPK1 <b>MW: 41kDa</b> <b>Entrez Gene ID: 5594</b>
Description	ERK2 (also designated extracellular-signal-related kinase 2 or mitogen-activated protein kinase 1), with 360 -amino acid protein (about 40kDa), belongs to the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. The activation of ERK2 requires its phosphorylation by upstream kinases. ERK2 is located in the cytoplasm of resting cells and translocates into the nucleus upon extracellular stimuli by active transport of a dimer. ERK2 is essential for placental development and ERK2 in the trophoblast compartment may be indispensable for the vascularization of the labyrinth.
Immunogen	Purified recombinant fragment of human ERK2 expressed in E. Coli.
Recitative Species	Human; Mouse; Monkey
Clone	MM4C11;
Size and Concentration	100µg/1mg/ml
Supplied as	Lyophilized Powder from 100µl of Purified antibody in PBS containing 0.03% sodium azide.
Reconstitution/Storages	Reconstituted with 100µl sterile DI H <sub>2</sub> O, at stored at 4°C or -20°C for short or long term storage
Applications	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: 1 to 200 - 1 to 1000; ICC: 1 to 200 - 1 to 1000
Shipping	Regular FEDEX overnight shipment (ambient temperature)
Reference	1. Angelique W. Whitehurst, Fred L. Robinson, Mary Shannon Moore. J. Biol. Chem., Mar 2004; 279: 12840 – 12847. ; 2. N Hatano, Y Mori, M Oh-hora. Genes Cells, Nov 2003; 8: 847 - 856. ;

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**