

## ERK1/2 (Phospho-T202/Y204) polyclonal antibody

Catalog: BS94044

Host: Rabbit

Reactivity: Human, Mouse, Rat

### Background:

The activation of signal transduction pathways by growth factors, hormones and neurotransmitters is mediated through two closely related MAP kinases, p44 and p42, designated extracellular-signal related kinase 1 (ERK 1) and ERK 2, respectively. ERK proteins are regulated by dual phosphorylation at Tyrosine 204 and 187 and Threonine 177 and 160 residues mapping within a characteristic Thr-Glu-Tyr motif. Phosphorylation at both the Threonine 202 and Tyrosine 204 residues of ERK1 and Threonine 185 and Tyrosine 187 residues of ERK2 is required for full enzymatic activation. The structural consequences of dual-phosphorylation in the ERK2 include active site closure, alignment of key catalytic residues that interact with ATP, and remodeling of the activation loop. In response to activation, MAP kinases phosphorylate downstream components on serine and threonine. Upstream MAP kinase regulators include MAP kinase kinase (MEK), MEK kinase and Raf-1. The ERK family has three additional members: ERK 3, ERK 5 and ERK 6.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

42/44 kDa

### Swiss-Prot:

P27361(Human) P28482(Human) P63085(Mouse)  
Q63844(Mouse) P21708(Rat) P63086(Rat)

### Purification&Purity:

ProA affinity purified

### Applications:

WB:1:1,000-1:2,000

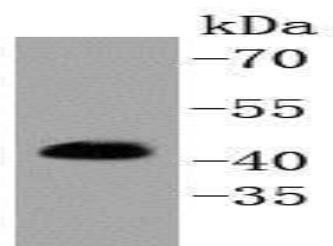
### Storage&Stability:

Store at +4 °C after thawing. Aliquot store at -20 °C or -80 °C. Avoid repeated freeze / thaw cycles.

### Specificity:

ERK1/2 (Phospho-T202/pY204) polyclonal antibody detects endogenous levels of ERK1/2 protein only when phosphorylated at T202/Y204.

### DATA:



Western blot analysis of Erk1(pT202/pY204)+Erk2(pT185/pY187) on A431 lysates using anti-Erk1(pT202/pY204)+Erk2(pT185/pY187) antibody at 1/1,000 dilution.

### Note:

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

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