

Phospho-ERK3-S189

Reactivity: Human Mouse Rat

Tested applications: WB

Recommended Dilution: WB 1:500 - 1:2000

Observed MW: Refer to Figures

Immunogen:

A phospho specific peptide corresponding to residues surrounding S189 of human ERK3

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

o

Synonym:

DKFZp686F03189; ERK3; HsT17250; PRKM6; p97MAPK; MAPK6;

Catalog #: AP0051

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 5597

Isotype: IgG

Swiss Prot: Q16659

Purity: Affinity purification

For research use only.

Background:

Erk3, also known as MAPK6 or p97 MAPK, is almost 50% identical to Erk1/2 at the kinase domain located in its amino-terminal region (1). However, Erk3 is distinguished from other MAP kinases in that it lacks the conserved TXY motif in its activation loop, possessing instead an SEG motif (1,2). Phosphorylation at Ser189 in the SEG motif has been reported (2,3). With limited information about its upstream kinases and downstream substrates, the significance of this phosphorylation remains to be elucidated (3,4). Erk3 is an inherently unstable protein, rapidly degraded through amino-terminal ubiquitination and proteasome degradation (3,5). A site-specific cleavage, depending on a short stretch of acidic residues of Erk3, might regulate its translocation from the Golgi/ERGIC to the nucleus during the cell cycle (6). Accumulating evidence suggests that Erk3 is involved in cell differentiation (1,3,6).

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