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Anti-phospho p44/42 MAPK (ERK1/2) (Thr202/Tyr204) Mouse mAb [25A9

Catalog No.: A32065

Basic Information

Catalog No. (Cat.No.)	A32065
Host species	Mouse
Reactivity	Human,Mouse
Applications	WB
Synonyms	phospho p44/42 MAPK (ERK1/2) (Thr202/Tyr204),p-ERK1/2(Thr202/Tyr204),ERK1/2,extracellular signal-regulated kinase 1/2,MAPK1,MAPK3

Product Information

Target	phospho p44/42 MAPK (ERK1/2) (Thr202/Tyr204)
Molecular Weight(Calculated)	44/42 kDa
Molecular Weight(Observed)	44/42 kDa
Isotype	NA
Conjugation	NA
Concentration	Please check the information on the tube.
Clonality	Monoclonal
Clone No.	25A91
RRID	NA
Storage buffer	50% Glycerol, 0.5% BSA and 0.02% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:500

Target Information

Protein Name	phospho p44/42 MAPK (ERK1/2) (Thr202/Tyr204)
Gene Name	*MAPK3*, *MAPK1*
Domain	NA
Background	Phospho-ERK1/2 (Thr202/Tyr204) is the hallmark modification for full activation of ERK1/2 kinases. The conserved dual phosphorylation sites Thr202/Tyr204 are specifically modified by upstream MEK kinases. Dual phosphorylation at these residues completely activates ERK1/2 kinase activity, promotes nuclear translocation and downstream signaling cascades, and mediates multiple biological effects including cell proliferation, inflammatory activation, metabolic reprogramming and malignant transformation. The phosphorylation level of Thr202/Tyr204 directly reflects the activation status of the MAPK/ERK pathway, and its aberrant elevation is a typical pathological feature of tumors, chronic inflammation, fibrosis and proliferative diseases.