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Anti-ERK1/2 (phospho Thr202/Tyr204) Rabbit mAb [51A81]

Catalog No.: A52113

Basic Information

Catalog No. (Cat.No.)	A52113
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IF,ELISA
Synonyms	ERK1/2 (phospho Thr202/Tyr204),p-ERK1/2(Thr202/Tyr204),ERK1/2,p42/p44 MAPK,p-ERK1/2(T202/Y204)

Product Information

Target	ERK1/2 (phospho Thr202/Tyr204)
Molecular Weight(Calculated)	44 kDa,42 kDa
Molecular Weight(Observed)	44 kDa,42 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	51A81
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% 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	1:2000-1:10000
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	ERK1/2 (phospho 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.