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Anti-ERK1/2 Mouse mAb [09D17]

Catalog No.: A33040

Basic Information

Catalog No. (Cat.No.)	A33040
Host species	Mouse
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,ICC/IF,IF-P,ELISA
Synonyms	ERK1/2,ERK1,ERT2,ERK-1,PRKM3,P44ERK1,P44MAPK,HS44KDAP,HUMKER1A,p44-ERK1,p44-MAPK

Product Information

Target	ERK1/2
Molecular Weight(Calculated)	44/42 kDa
Molecular Weight(Observed)	NA
Isotype	IgG
Conjugation	NA
Concentration	1 mg/ml
Clonality	Monoclonal
Clone No.	09D17
RRID	NA
Storage buffer	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	1:1000
IHC	1:1000
ICC/IF	1:100-1:500
IF-P	1:200-1:2000
ELISA	1:5000-1:20000

Target Information

Protein Name	Extracellular-signal-regulated kinase-1/2
Gene Name	*MAPK3*, *MAPK1*
Domain	Full length
Background	ERK1/2 (Extracellular Regulated Protein Kinases 1/2) are core isoforms of the MAPK serine/threonine kinase family, encoded by MAPK3 and MAPK1 genes respectively, and function as pivotal effector kinases of the canonical Ras-Raf-MEK-ERK signaling pathway. Ubiquitously expressed in various tissues and cells, ERK1/2 responds to diverse extracellular stimuli including growth factors, cytokines and stress signals. Upon cascade phosphorylation activation, ERK1/2 translocates to the nucleus to regulate downstream target gene transcription, governing fundamental biological processes such as cell proliferation, differentiation, survival, migration, metabolism and inflammatory responses. Sustained aberrant activation of ERK1/2 is a major driver of malignant tumor proliferation, fibrosis progression, chronic inflammation and metabolic disorders, making it a core research hotspot in life science and oncology.