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**Patents** 

## MEK1/2 (L38C12) Mouse mAb



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<b>Applications:</b> WB, IHC-P, IF-IC, FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 45	Source/Isotype: Mouse IgG1	<b>UniProt ID:</b> #P36507, #Q02750	<b>Entrez-Gene Id:</b> 5605, 5604
Product Usage Information	Αŗ	plication				Dilution
	We	estern Blotting				1:1000
	Im	munohistochemistry	(Paraffin)			1:25
	Im	Immunofluorescence (Immunocytochemistry)				1:25
	Flo	Flow Cytometry (Fixed/Permeabilized)				1:25
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sensitivity		MEK1/2 (L38C12) Mouse mAb detects endogenous levels of total MEK1/2 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with full length MEK1/2 proteins.				
MEK1 and MEK2, also called MAPK or Erk kinases, are dual-specificity protein kinases that fund mitogen activated protein kinase cascade controlling cell growth and differentiation (1-3). Activation MEK1 and MEK2 occurs through phosphorylation of two serine residues at positions 217 and 22 in the activation loop of subdomain VIII, by Raf-like molecules. MEK1/2 is activated by a wide varying growth factors and cytokines and also by membrane depolarization and calcium influx (1-4). Cornactive forms of MEK1/2 are sufficient for the transformation of NIH/3T3 cells or the differentiation cells (4). MEK activates p44 and p42 MAP kinase by phosphorylating both threonine and tyrosing at sites located within the activation loop of kinase subdomain VIII.						<ul> <li>Activation of</li> <li>and 221, located</li> <li>wide variety of</li> <li>Constitutively</li> <li>rentiation of PC-12</li> </ul>
1. Crews, C.M. et al. (1992) <i>Science</i> 258, 478-480. 2. Alessi, D.R. et al. (1994) <i>EMBO J.</i> 13, 1610-19. 3. Rosen, L.B. et al. (1994) <i>Neuron</i> 12, 1207-21. 4. Cowley, S. et al. (1994) <i>Cell</i> 77, 841-52.						

Species reactivity is determined by testing in at least one approved application (e.g., western blot). **Species Reactivity** 

**Western Blot Buffer** IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin) **Applications Key** 

IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key** 

X: Xenopus Z: zebrafish B: bovine Dq: dog Pq: piq Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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