## MEK1/2 (L38C12) Mouse mAb



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## For Research Use Only. Not for Use in Diagnostic Procedures.

Reactivity: H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 45	Source/Isotype: Mouse IgG1	<b>UniProt ID:</b> #P36507, #Q02750	<b>Entrez-Gene Id:</b> 5605, 5604
	Application				Dilution
Product Usage Information	Western Blotting				1:1000
	Immunohistochemist	ry (Paraffin)			1:25
	Immunofluorescence	(Immunocytochem	istry)		1:25
	Flow Cytometry (Fixed	d/Permeabilized)			1:25
	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
	For a carrier free (BSA and azide free) version of this product see product #94309.				
sitivity	MEK1/2 (L38C12) Mouse mAb detects endogenous levels of total MEK1/2 protein.				
ation	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 function in a mitogen activated protein kinase cascade controlling cell growth and differentiation (1-3). Activation of MEK1 and MEK2 occurs through phosphorylation of two serine residues at positions 217 and 221, located in the activation loop of subdomain VIII, by Raf-like molecules. MEK1/2 is activated by a wide variety of growth factors and cytokines and also by membrane depolarization and calcium influx (1-4). Constitutively active forms of MEK1/2 are sufficient for the transformation of NIH/3T3 cells or the differentiation of PC-12 cells (4). MEK activates p44 and p42 MAP kinase by phosphorylating both threonine and tyrosine residues at sites located within the activation loop of kinase subdomain VIII.				
ferences	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.				
	H M R Mk sitivity ation	Application Western Blotting Immunohistochemist Immunofluorescence Flow Cytometry (Fixed Supplied in 10 mM so 0.02% sodium azide. S  For a carrier free (BSA MEK1/2 (L38C12) Mou Monoclonal antibody MEK1 and MEK2, also mitogen activated pro MEK1 and MEK2 occu located in the activati variety of growth fact Constitutively active f differentiation of PC- threonine and tyrosin  1. Crews, C.M. et al. (19 2. Alessi, D.R. et al. (19 3. Rosen, L.B. et al. (19	Application Western Blotting Immunohistochemistry (Paraffin) Immunofluorescence (Immunocytochem Flow Cytometry (Fixed/Permeabilized) Supplied in 10 mM sodium HEPES (pH 7.5 0.02% sodium azide. Store at -20°C. Do n For a carrier free (BSA and azide free) ver MEK1/2 (L38C12) Mouse mAb detects end MeK1 and MEK2, also called MAPK or Erk mitogen activated protein kinase cascade MEK1 and MEK2 occurs through phospholocated in the activation loop of subdoma variety of growth factors and cytokines a Constitutively active forms of MEK1/2 are differentiation of PC-12 cells (4). MEK acti threonine and tyrosine residues at sites Is 1. Crews, C.M. et al. (1992) Science 258, 4 2. Alessi, D.R. et al. (1994) Neuron 12, 126 3. Rosen, L.B. et al. (1994) Neuron 12, 126	Application Western Blotting Immunohistochemistry (Paraffin) Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized) Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µ 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody For a carrier free (BSA and azide free) version of this product se Sitivity MEK1/2 (L38C12) Mouse mAb detects endogenous levels of total Monoclonal antibody is produced by immunizing animals with the MEK1 and MEK2, also called MAPK or Erk kinases, are dual-specimitogen activated protein kinase cascade controlling cell growth MEK1 and MEK2 occurs through phosphorylation of two serine located in the activation loop of subdomain VIII, by Raf-like mol variety of growth factors and cytokines and also by membrane Constitutively active forms of MEK1/2 are sufficient for the tran differentiation of PC-12 cells (4). MEK activates p44 and p42 MA threonine and tyrosine residues at sites located within the active ferences  1. Crews, C.M. et al. (1992) Science 258, 478-480. 2. Alessi, D.R. et al. (1994) EMBO J. 13, 1610-19. 3. Rosen, L.B. et al. (1994) Neuron 12, 1207-21.	Application Western Blotting Immunohistochemistry (Paraffin) Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)  Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycero 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.  For a carrier free (BSA and azide free) version of this product see product #94309.  Sitivity  MEK1/2 (L38C12) Mouse mAb detects endogenous levels of total MEK1/2 protein.  Monoclonal antibody is produced by immunizing animals with full length MEK1/2 protein MEK1 and MEK2, also called MAPK or Erk kinases, are dual-specificity protein kinases mitogen activated protein kinase cascade controlling cell growth and differentiation (MEK1 and MEK2 occurs through phosphorylation of two serine residues at positions 2 located in the activation loop of subdomain VIII, by Raf-like molecules. MEK1/2 is activariety of growth factors and cytokines and also by membrane depolarization and cal Constitutively active forms of MEK1/2 are sufficient for the transformation of NIH/3T3 differentiation of PC-12 cells (4). MEK activates p44 and p42 MAP kinase by phosphory threonine and tyrosine residues at sites located within the activation loop of kinase sufferences  1. Crews, C.M. et al. (1992) Science 258, 478-480.  2. Alessi, D.R. et al. (1994) EMBO J. 13, 1610-19.  3. Rosen, L.B. et al. (1994) Neuron 12, 1207-21.

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

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.

**Applications Key** W: Western Blotting IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence

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

**Cross-Reactivity Key** H: Human M: Mouse R: Rat Mk: Monkey

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