

#### OriGene Technologies, Inc.

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# Product datasheet for TA384705M

## MAP2K1 Rabbit Monoclonal Antibody [Clone ID: R07-116]

## **Product data:**

Product Type:	Primary Antibodies
Clone Name:	R07-116
Applications:	IF, WB
Recommended Dilution:	WB: 1/1000 ICC/IF: 1/50
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
lsotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic phosphopeptide corresponding to residues surrounding Ser298 of human MEK1 (Phosphorylated)
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 43 kDa; Observed MW: 43 kDa
Database Link:	<u>Q02750</u>



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#### Sourigene MAP2K1 Rabbit Monoclonal Antibody [Clone ID: R07-116] – TA384705M

Background: Swiss-Prot Acc.Q02750.Dual specificity protein kinase which acts as an essential component of the MAP kinase signal transduction pathway. Binding of extracellular ligands such as growth factors, cytokines and hormones to their cell-surface receptors activates RAS and this initiates RAF1 activation. RAF1 then further activates the dual-specificity protein kinases MAP2K1/MEK1 and MAP2K2/MEK2. Both MAP2K1/MEK1 and MAP2K2/MEK2 function specifically in the MAPK/ERK cascade, and catalyze the concomitant phosphorylation of a threonine and a tyrosine residue in a Thr-Glu-Tyr sequence located in the extracellular signalregulated kinases MAPK3/ERK1 and MAPK1/ERK2, leading to their activation and further transduction of the signal within the MAPK/ERK cascade. Depending on the cellular context, this pathway mediates diverse biological functions such as cell growth, adhesion, survival and differentiation, predominantly through the regulation of transcription, metabolism and cytoskeletal rearrangements. One target of the MAPK/ERK cascade is peroxisome proliferator-activated receptor gamma (PPARG), a nuclear receptor that promotes differentiation and apoptosis. MAP2K1/MEK1 has been shown to export PPARG from the nucleus. The MAPK/ERK cascade is also involved in the regulation of endosomal dynamics, including lysosome processing and endosome cycling through the perinuclear recycling compartment (PNRC), as well as in the fragmentation of the Golgi apparatus during mitosis.

## **Product images:**



Western blot analysis of Phospho-MEK1 (Ser298) in C6, 3T3, Hela lysates using Phospho-MEK1 (Ser298) antibody.

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Immunocytochemistry analysis of Phospho-MEK1 (Ser298) (green) in HT-1080 using Phospho-MEK1 (Ser298) antibody,and DAPI(blue).

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