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anti-MEK1 antibody (Internal Region)

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Publications



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Overview

Quantity:	100 μL
Target:	MEK1 (MAP2K1)
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MEK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

lmmunogen:	A synthesized peptide derived from human MEK1/2, corresponding to a region within the internal amino acids.
Isotype:	IgG
Specificity:	MEK1/2 Antibody detects endogenous levels of total MEK1/2.
Predicted Reactivity:	Pig,Zebrafish,Bovine,Horse,Sheep,Rabbit,Dog,Chicken,Xenopus
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).

Target Details

Target: MEK1 (MAP2K1)

Target Details

Alternative Name:	MAP2K1,MAP2K2 (MAP2K1 Products)
Background:	Description: 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 signal-regulated 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 mediate
	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.
	Gene: MAP2K1
Molecular Weight:	45kDa
Gene ID:	5604, 5605
UniProt:	Q02750, P36507
Pathways:	MAPK Signaling, RTK Signaling, Interferon-gamma Pathway, Fc-epsilon Receptor Signaling
	Pathway, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Toll-Like
	Receptors Cascades, Autophagy, Signaling of Hepatocyte Growth Factor Receptor, BCR
	Signaling
Application Details	
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid

Handling

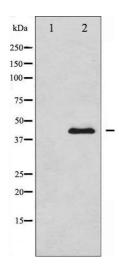
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 $\%$ sodium azide and 50 $\%$ glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Publications

Product cited in:

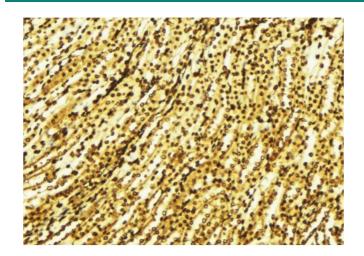
Sun, Xu, Yi, Chen, Wu, Cao, Zhou, Jiang, Zhang: "Role of 5-HT1A receptor in insular cortex mediating stress - induced visceral sensory dysfunction." in: **Neurogastroenterology and motility: the official journal of the European Gastrointestinal Motility Society**, Vol. 28, Issue 7, pp. 1104-13, (2018) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of MEK1/2 expression in UV treated Jurkat whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



Immunohistochemistry

Image 2. ABIN6269316 at 1/100 staining Human gastric tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.