Datasheet for ABIN3019497

anti-MEK1 antibody (pSer298)

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Overview

Quantity:	100 µL
Target:	MEK1 (MAP2K1)
Binding Specificity:	pSer298
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MEK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP)

Product Details

Immunogen:	A synthetic phosphorylated peptide around S298 of human MEK1 (NP_002746.1).
Sequence:	PLSSY
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Phosphorylated Antibodies

Target Details

Target:	MEK1 (MAP2K1)
Alternative Name:	MAP2K1 (MAP2K1 Products)
Background:	The protein encoded by this gene is a member of the dual specificity protein kinase family,

Target Details

	which acts as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein kinase lies upstream of MAP kinases and stimulates the enzymatic activity of MAP kinases upon wide variety of extra- and intracellular signals. As an essential component of MAP kinase signal transduction pathway, this kinase is involved in many cellular processes such as proliferation, differentiation, transcription regulation and development.,CFC3,MAPKK1,MEK1,MKK1,PRKMK1,MAP2K1,Signal Transduction,G protein signaling,G2/M DNA Damage Checkpoint,Kinase,Tyrosine kinases,ErbB-HER Signaling Pathway,MAPK-Erk Signaling Pathway,Cell Biology & Developmental Biology,Cytoskeleton,Actins,ESC Pluripotency and Differentiation,Endocrine & Metabolism,Insulin Receptor Signaling Pathway,Warburg Effect,Immunology & Inflammation,B Cell Receptor Signaling Pathway,T Cell Receptor Signaling Pathway,IL-6 Receptor Signaling Pathway,Neuroscience,Neurodegenerative Diseases,Cardiovascular,Angiogenesis,Protein phosphorylation,MAP2K1
Molecular Weight:	40 kDa/43 kDa
Gene ID:	5604
UniProt:	Q02750
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,IP,1:50 - 1:100
Restrictions:	For Research Use only

Handling

Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
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

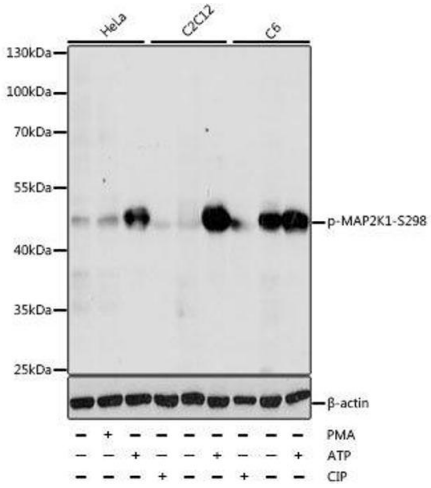
Handling

Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

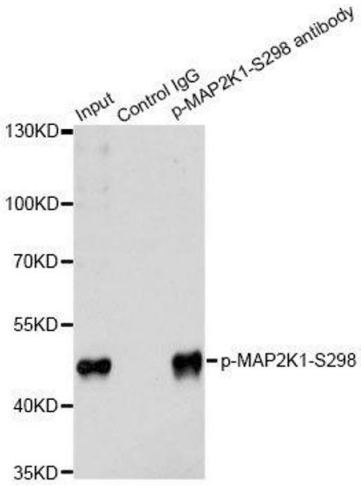
Product cited in:	Liu, Hu, Tu, Wang, Yang, Yang, Luo: "MCM6 promotes metastasis of hepatocellular carcinoma via MEK/ERK pathway and serves as a novel serum biomarker for early recurrence." in: **Journal of experimental & clinical cancer research : CR**, Vol. 37, Issue 1, pp. 10, (2018) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using Phospho-MAP2K1-S298 antibody.



Immunoprecipitation

Image 2. Immunoprecipitation analysis of 200ug extracts of 293 cells treated by PMA using 2.5ug Phospho-MAP2K1-S298 antibody.