



Rabbit Anti-Human MAP2K2 Polyclonal Antibody (CABT-L2275)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Mitogen Activated Protein Kinase Kinase 2 (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against MAP2K2. It has been selected for its ability to recognize MAP2K2 in immunohistochemical staining and western blotting.
Target	MAP2K2
Immunogen	Recombinant fragment corresponding to human MAP2K2 (Val86~Pro331)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags

BACKGROUND

Introduction	The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is known to play a critical role in mitogen growth factor signal transduction. It phosphorylates and thus activates MAPK1/ERK2 and MAPK2/ERK3. The activation of this kinase itself is dependent on the Ser/Thr phosphorylation by MAP kinase kinase kinases. Mutations in this gene cause cardiofaciocutaneous syndrome (CFC syndrome), a disease characterized by heart defects, mental retardation, and distinctive facial features similar to those found in Noonan syndrome. The inhibition or degradation of this kinase is also found to be involved in the pathogenesis of Yersinia and anthrax. A pseudogene, which is located on chromosome 7, has been identified for this gene. [provided by RefSeq, Jul 2008]
Keywords	MAPKK2;MEK2;MKK2;PRKMK2;ERK activator kinase 2;Dual specificity mitogen-activated protein kinase kinase 2

GENE INFORMATION

Gene Name	MAP2K2 mitogen-activated protein kinase kinase 2 [Homo sapiens (human)]
Official Symbol	MAP2K2
Synonyms	MAP2K2; mitogen-activated protein kinase kinase 2; CFC4; MEK2; MKK2; MAPKK2; PRKMK2; dual specificity mitogen-activated protein kinase kinase 2; MAPK/ERK kinase 2; MAP kinase kinase 2; ERK activator kinase 2; mitogen-activated protein kinase kinase 2, p45;
Entrez Gene ID	5605
Protein Refseq	NP_109587
UniProt ID	P36507
Chromosome Location	19p13.3
Pathway	ARMS-mediated activation; Activated TLR4 signalling; Acute myeloid leukemia; Amyotrophic lateral sclerosis (ALS); Axon guidance; B Cell Receptor Signaling Pathway; B cell receptor signaling pathway; BDNF signaling pathway;
Function	ATP binding; MAP kinase kinase activity; PDZ domain binding; protein binding; protein complex scaffold; protein serine/threonine kinase activator activity; protein serine/threonine kinase

activity; protein serine/threonine/tyrosine kinase activity; protein tyrosine kinase activity; scaffold protein binding;
