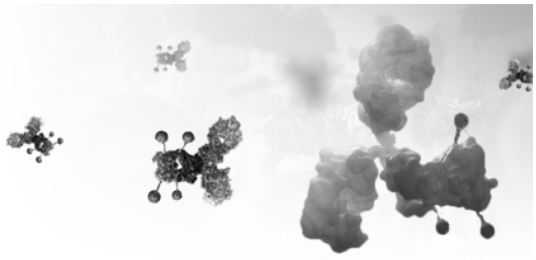

Mouse anti-Human MAPK2 monoclonal antibody, clone Q35-705 (CABT-B9232)

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

PRODUCT INFORMATION

Immunogen	Phosphorylated Human MAPKAPK-2 Peptide
Isotype	IgG1, κ
Source/Host	Mouse
Species Reactivity	Human, Mouse
Clone	Q35-705
Purification	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Conjugate	Unconjugated
Applications	WB; FC
Format	Liquid
Concentration	0.5 mg/ml
Size	100 µg
Buffer	Aqueous buffered solution containing ≤0.09% sodium azide.
Storage	Store undiluted at 4°C.

BACKGROUND

Introduction	The Q35-705 monoclonal antibody specifically binds to the phosphorylated T334 site (pT334) of

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	MAPKAPK-2. MAPKAPK-2 is a serine/threonine protein kinase. This ~49 kDa member of the MAPKAPK family of protein kinases is also known as mitogen-activated protein kinase-activated protein kinase 2. MAPKAPK-2 is phosphorylated and activated by p38 MAP kinase in response to stress, cytokines and chemokines. MAPKAPK-2 is phosphorylated on multiple sites including Thr222, Ser272 and Thr334. Phosphorylation of any two of these three amino acid residues seems to be required for the activation of this kinase that serves multiple cellular functions. Phosphorylation of Thr334 was reported to be essential for nuclear export of the heterodimer formed between p38 MAPK and MAPKAPK-2. Mice deficient in MAPKAPK-2 have been shown to be protected from ischemic injury. MAPKAPK-2 is also reported to serve as a cell cycle checkpoint kinase in response to UV irradiation. The heat shock protein, HSP27 was shown to be one of the major substrates of MAPK and MAPKAPK-2.
Keywords	MAPKAPK2; mitogen-activated protein kinase-activated protein kinase 2; MK2; MK-2; MAPKAP-K2; MAP kinase-activated protein kinase 2; MAPKAP kinase 2; MAPK-activated protein kinase 2;

GENE INFORMATION

Entrez Gene ID	9261
UniProt ID	P49137

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