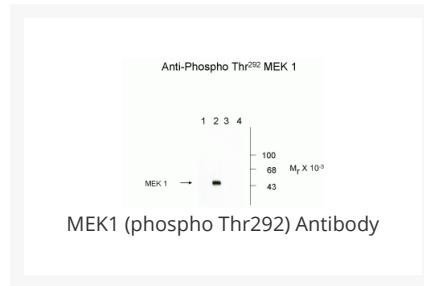




MEK1 (phospho Thr292) Antibody

Cat. No.: XPS-1016



Ψ Specifications

HOST SPECIES:	Rabbit
SPECIES REACTIVITY:	Rat
IMMUNOGEN:	MEK 1 (Thr292) polyclonal antibody was raised against a synthetic phosphopeptide corresponding to amino acids residues surrounding the phospho Thr292 of human MEK 1.
TESTED APPLICATIONS:	WB
APPLICATIONS:	Applications include Dot Blots (DB) and Western Blots (WB). Suitability for Immunohistochemistry (IHC) has not yet been determined. When internally tested under ideal conditions the working dilutions were 1:1000 for DB and WB.
SPECIFICITY:	MEK1 antibody is specific for the 45k MEK 1 phosphorylated at Thr292.
PREDICTED MOLECULAR WEIGHT:	45

Ψ Properties

PURIFICATION:	Affinity Purified
CLONALITY:	Polyclonal
CONJUGATE:	Unconjugated
PHYSICAL STATE:	Liquid

STORAGE CONDITIONS:	For long term storage -80°C is recommended, but shorter term storage at -20°C is also acceptable as aliquots may be taken without freeze/thawing due to the presence of 50% glycerol. Stable for one year.
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Additional Info

OFFICIAL SYMBOL:	MAP2K1
ACCESSION NO.:	Q02750
PROTEIN GI NO.:	400274
GENE ID:	5604
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.

Background and References

BACKGROUND:	MEK 1 (MAP Kinase Kinase, also known as MKK) is an integral component of the MAP kinase cascade that regulates cell growth and differentiation and this pathway also plays a key role in synaptic plasticity in brain. Activated MEK 1 acts as a dual specificity kinase phosphorylating both a threonine and a tyrosine residue on MAP kinase. Conversely there also appears to be a feedback phosphorylation of MEK 1 by MAP kinase. The sites on MEK 1 that are phosphorylated by MAP kinase are Thr292 and Thr386.
REFERENCES:	1) Park, S.H., Zarrinpar, A. and Lim, W.A., "Rewiring MAP kinase pathways using alternative scaffold assembly mechanisms," <i>Science</i> 299 (2003) 1061 - 1064.
	2) Adams, J.P. and Sweatt, J.D., "Molecular psychology: Roles for the ERK MAP kinase cascade in memory," <i>Annu. Rev. Pharmacol. Toxicol.</i> 42 (2002) 135 - 163.
	3) Mansour, S.J., Resing, K.A., Candi, J.M., Hermann, A.S., Gloor, J.W., Herskind, K.R., Wartmann, M., Davis, R.J., and Ahn, N.G., "Mitogen-activated protein (MAP) kinase phosphorylation of MAP kinase kinase: determination of phosphorylation sites by mass spectrometry and site-directed mutagenesis." <i>J. Biochem. (Tokyo)</i> 116 (1994) 304-14.
	4) Ahn, N.G., "The MAP kinase cascade. Discovery of a new signal transduction pathway," <i>Mol. Cell Biochem.</i> 127 - 128 (1993) 201 - 209.

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