

Product Datasheet

MEK1 [p Thr386] Antibody - Azide Free NB500-144

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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NB500-144

MEK1 [p Thr386] Antibody - Azide Free

Product Information

Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	10mM HEPES (pH 7.5), 0.15M NaCl, 0.1 mg/ml BSA and 50% Glycerol
Target Molecular Weight	45 kDa

Product Description

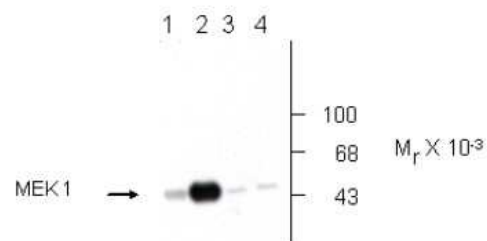
Host	Rabbit
Gene ID	5604
Gene Symbol	MAP2K1
Species	Human, Rat
Reactivity Notes	Human reactivity reported in scientific literature (PMID: 26446942)
Specificity/Sensitivity	Specific for endogenous levels of the ~45 kDa MEK1 protein phosphorylated at Thr386. The immunolabeling is completely eliminated by treatment with lambda-phosphatase.
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Thr386 conjugated to KLH. Accession # Q02750

Product Application Details

Applications	Western Blot, Simple Western
Recommended Dilutions	Western Blot 1:1000, Simple Western 1:50
Application Notes	<p>NB 500-144 can be used in Dot blots and Western blot where a band is seen at ~45 kDa, representing MEK 1. The investigator should determine the optimal dilution for a specific application.</p> <p>See Simple Western Antibody Database for Simple Western validation: tested in HeLa + EGF; separated by size, antibody dilution of 1:50.</p>

Images

Western Blot: MEK1 [p Thr386] Antibody [NB500-144] - Analysis of recombinant WT and mutant MEK 1 immunolabeled with the Anti Thr386 MEK1 antibody. Lanes 1 and 2 are WT MEK 1 and Lanes 3 and 4 are mutant MEK 1 (T386A). MAP kinase was coexpressed in the samples run in Lanes 2 and 4.

Anti-Phospho Thr³⁸⁶ MEK 1

Publications

Quality Control Tests: Dot blots Western blots performed with each lot.

Chong H, Vikis HG, Guan KL. Mechanisms of regulating the Raf kinase family. *Cellular Signalling* 15 (2003) 463-469. [PMID: 12639709]

Adams, JP Sweatt, JD. Roles for the ERK MAP kinase cascade in memory, *Annu. Rev Pharmacol Toxicol* 42 135 - 163. 2002-01-01 [PMID: 11807168]

Ahn, NG, quot. The MAP kinase cascade. Discovery of a new signal transduction pathway. *Mol. Cell Biochem.* 127 - 128 201 - 209. 1993-01-01 [PMID: 7935352]

Mansour, SJ, Resing, KA, Ci, JM, Hermann, AS, Gloor, JW, Herskind, KR, Wartmann, M, Davis, RJ, Ahn, NG, quot. Mitogen-activated protein (MAP) kinase phosphorylation of MAP kinase kinase: determination of phosphorylation sites by mass spectrometry site-directed mutagenesis. *J. Biochem. (Tokyo)* 116 304. 1994-01-01 [PMID: 7822248]

Seger R, Ahn NG, Boulton TG, Yancopoulos GD, Panayotatos N, Radziejewska E, Ericsson L, Bratlien RL, Cobb MH, Krebs EG. Microtubule-associated protein 2 kinases, ERK1 ERK2, undergo autophosphorylation on both tyrosine threonine residues: Implications for their mechanism of activation. *Proc Natl Acad Sci USA* 88 6142-6146. 1991-01-01 [PMID: 1712480]

Kyriakis JM, Brautigan DL, Ingebritsen TS, Avruch J. pp54 Microtubule-associated protein-2 kinase requires both tyrosine serine/threonine phosphorylation for activity. *J Biol Chem* 266 10043-10046. 1991-01-01 [PMID: 1645334]

Crews, CM, Alessrini, A, Erikson, RL. The primary structure of MEK, a protein kinase that phosphorylates the ERK gene product. *Science* 258 478 - 480. 1992-01-01 [PMID: 1411546]





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Products Related to NB500-144

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00005604-Q01-10ug	Recombinant Human MEK1 GST (N-Term) Protein

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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