ARG52336
anti-MEK5 phospho (Ser311 / Thr315) antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes MEK5 phospho (Ser311 / Thr315)
Tested Reactivity	Rat
Predict Reactivity	Hu, Ms, Bov, Chk, Dog, NHuPrm, Xenopus laevis, Zfsh
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MEK5
Species	Rat
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser311/Thr315 conjugated to KLH
Conjugation	Un-conjugated
Alternate Names	MEK 5; HsT17454; MAPK/ERK kinase 5; PRKMK5; EC 2.7.12.2; MAPKK 5; MEK5; MAPKK5; Dual specificity mitogen-activated protein kinase kinase 5; MAP kinase kinase 5

Application Instructions

Application table

Application	Dilution
WB	1:1000

Application Note: Specific for the ~49k MEK5 protein phosphorylated at Ser311, Thr315. Immunolabeling of the MEK5 band is blocked by preadsorption with the phospho-peptide used as antigen but not be the corresponding dephospho-peptide.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

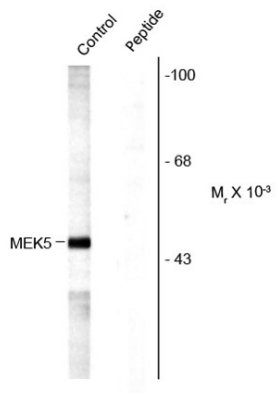
Properties

Form	Liquid
Purification	Affinity Purified
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol
Stabilizer	0.1 mg/ml BSA, 50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 29568 Rat Swiss-port # Q62862 Rat
Gene Symbol	MAP2K5
Gene Full Name	mitogen activated protein kinase kinase 5
Background	MEK5 (also known as MKK5) is a dual specificity serine/threonine protein kinase belonging to the MAP kinase kinase family. MEK5 has been shown to specifically activate ERK5 (Zhou et al., 1995) whereas MEK5 itself is regulated by MEKK3 (Chao et al., 1999). An important link between MEK5 and metastatic prostrate cancer has been demonstrated (Mehta et.al., 2003). Dual phosphorylation of Ser311 and Thr315 have been implicated in cell proliferation (Cameron et al., 2004).
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Signaling Transduction antibody
Calculated Mw	50 kDa
PTM	Activated by phosphorylation on Ser/Thr by MAP kinase kinase kinases. Yersinia yopJ may acetylate Ser/Thr residues, preventing phosphorylation and activation, thus blocking the MAPK signaling pathway.

Images



ARG52336 anti-MEK5 phospho (Ser311 / Thr315) antibody WB image

Western blot: Rat testis lysate showing phospho-specific immunolabeling of the ~49 kDa MEK5 protein phosphorylated at Ser311 and Thr315 stained with ARG52336 anti-MEK5 phospho (Ser311 / Thr315) antibody.