Anti-Phospho-MAPK1/2-Thr202/Tyr204 antibody (STJA0003631)

STJA0003631

GENERAL INFORMATION

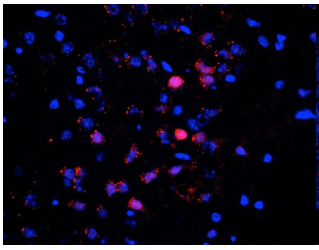
Product Type	Primary antibodies
Short Description	Rabbit polyclonal antibody anti-Phospho-ERK/MAPK-Thr202/Tyr204 is suitable for use in Western Blot, Immunohistochemistry and Immunocytochemistry research applications.
Applications	WB/IHC/ICC
Host/Source	Rabbit
Reactivity	Human/Mouse/Rat/Bovine/Canine/Chicken/Non-Human Primates/Xenopus/Zebrafish

PRODUCT PROPERTIES

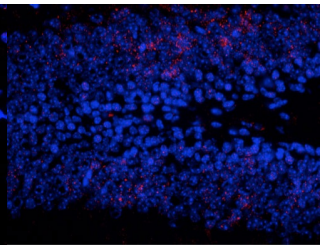
Clonality	Polyclonal
Clone ID	
Concentration	
Conjugation	Unconjugated
Purification	This antibody was antigen affinity purified from pooled serum.
Dilution Range	WB 1:1000 IHC 1:100-1:500 ICC 1:100-1:250
Formulation	100 µl in 10 mM HEPES (pH 7.5) , 150 mM NaCl, 100 µg per ml BSA and 50% Glycerol.
Isotype	IgG
Storage Instruction	Store at-20°C for up to 1 year from the date of receipt, and avoid repeat freeze-thaw cycles.

TARGET INFORMATION

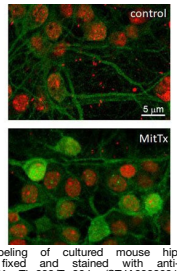
Gene ID	116590
Gene Symbol	Mapk1
Uniprot ID	MK01_RAT
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Thr202/Tyr204 conjugated to KLH.
Immunogen Region	
Specificity	
Immunogen Sequence	



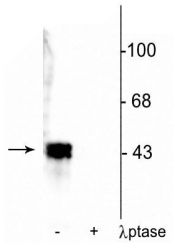
Immunostaining of neurons in the frontal cortex of saline treated mouse brain identifying cytoplasmic and nuclear staining of ERK/MAPK when phosphorylated at Thr202/Tyr204 (STJA0003631, red, 1:500). The intense nuclear staining of a few neurons shows stimulation of the neuron resulting in translocation of the protein. The blue is staining nuclei with DAPI. Photo courtesy of Robert Wine.



Immunostaining of granule cells in the dentate gyrus of the hippocampus from saline treated mouse brain staining ERK/MAPK when phosphorylated at Thr202/Tyr204 (STJA0003631, 1:500, red). The blue is staining nuclei with DAPI. The MAPK positive neurons show punctate staining primarily localized in the nucleus with few staining both cytoplasmic and nuclear. Photo courtesy of Robert Wine.



Immunolabeling of cultured mouse hippocampal neurons fixed and stained with anti-phospho-ERK/MAPK Thr202/Tyr204 (STJA0003631, green, 1:100) and red nuclear stain Propidium Iodide. The labeling identifies an increase in ERK/MAPK phosphorylation when hippocampal neurons are treated with a specific ASIC1a activator, MitTx toxin (20 nM, 4 min). Image kindly provided by Carina Weissmann, IFIBYNE-CONICET.



Western blot of human T47D cell lysate showing specific immunolabeling of ~42-44 kDa ERK/MAPK protein phosphorylated at Thr202/Tyr204 in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is completely eliminated by blot treatment with lambda phosphatase (Lambda-Ptase, 1200 units for 30 min).

This product is suitable for in-vitro studies under the RESEARCH USE ONLY [RUO] licence. This product must not be used as for diagnostic or other medical purposes.
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