

Anti-Phospho-ERK/MAPK (Thr202, Tyr204) Antibody

Catalog Number: P00030

About MAPK1/2

Extracellular-Signal Regulated Kinase/Mitogen-Activated Protein Kinase (ERK/MAPK) is an integral component of cellular signaling during mitogenesis and differentiation of mitotic cells and also is thought to play a key role in learning and memory (Adams and Sweatt, 2002; Ahn, 1993; Tanoue and Nishida, 2003; Johnson and Lapadat, 2002). The activity of this kinase is regulated by dual phosphorylation at Thr202 and Tyr204 (Ahn, 1993).

Overview

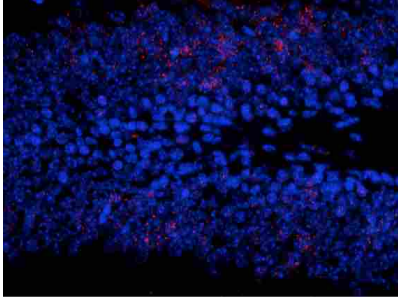
Product Name	Anti-Phospho-ERK/MAPK (Thr202, Tyr204) Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Phospho-ERK/MAPK (Thr202, Tyr204) Antibody (Catalog # P00030). Tested in WB, IHC, ICC applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, ICC, WB
Clonality	Polyclonal JE44-80
Formulation	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Storage Instructions	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C. After date of receipt, stable for at least 1 year at -20°C.
Host	Rabbit
Uniprot ID	P63086

Technical Details

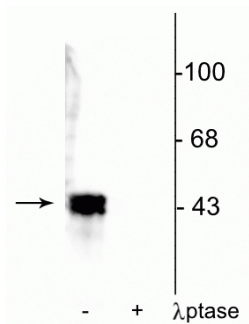
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Thr202/Tyr204 of rat ERK/MAPK conjugated to keyhole limpet hemocyanin (KLH). Immunogen species is Rat.
Predicted Reactive Species	Bovine, Canine, Chicken, Primate, Xenopus, Zebrafish
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on

	phospho and non-phosphopeptide affinity columns.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>WB: 1:1000</p> <p>IHC: 1:100-1:500</p> <p>ICC: 1:100-1:250</p>

Anti-Phospho-ERK/MAPK (Thr202, Tyr204) Antibody (P00030) Images



Immunostaining of granule cells in the dentate gyrus of saline treated mouse showing ERK/MAPK when phosphorylated at Thr²⁰²/Tyr²⁰⁴ (red) and nuclei (blue).



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 (gamma-Ptase, 1200 units for 30 min).

9 Publications Citing This Product

1. PubMed ID: 10.1186/s12906-020-02895-7, Iridoid glycosides from *Morinda officinalis* How. exert anti-inflammatory and anti-arthritis effects through inactivating MAPK and NF-kappaB signaling pathways
2. PubMed ID: 10.1159/000331753, Panax Notoginseng Saponins Promote Osteogenic Differentiation of Bone Marrow Stromal Cells Through the ERK and P38 MAPK Signaling Pathways
3. PubMed ID: 10.1016/j.ijbiomac.2019.11.172, Activation of RAW264.7 macrophages by an acidic polysaccharide derived from *Citrus grandis* 'Tomentosa'

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