OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AP02499PU-S

ERK1 / ERK2 pThr187/pTyr204 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western Blot: 1/500~1/1000. Immunohistochemistry: 1/50~1/100. Immunofluorescence: 1/100~1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized phosphopeptide derived from Human p44/42 MAP Kinase around the phosphorylation site of Tyrosine 204 (T-E-Y*p*-V-A).
Specificity:	This antibody detects endogenous levels of p44/42 MAP Kinase only when phosphorylated at Tyrosine 204.
Formulation:	PBS (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide as preservative and 50% Glycerol as stabilizer. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.

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Background: Both p44 and p42 MAP kinases (Erk1 and Erk2) function in a protein kinase cascade that plays a critical role in the regulation of cell growth and differentiation. Activation of MAP kinases occurs through phosphorylation of threonine and tyrosine (202 and 204 of human MAP kinase [Erk1] or 183 and 185 of rat Erk2) at the sequence T*EY* by a single upstream MAP kinase kinase (MEK). Both kinases are known to weakly autophosphorylate on tyrosine.

Synonyms: ERK-1/ERK-2, MAPK1/MAPK2, P42/P44-MAPK

Note: Protocol: 1. TETE HANNKEN, et al. (2000) Am Soc Nephrol 11:1387-1397
2. Omar D. PerezNature et al. (2002) Biotechnology 20: 155 - 162
3. Jingui Yu, et al. (2005) Anesth Analg 101: 315-321
4. Hironobu Ihn et al.(2000) Immunology 165: 2149-2155

Product images:

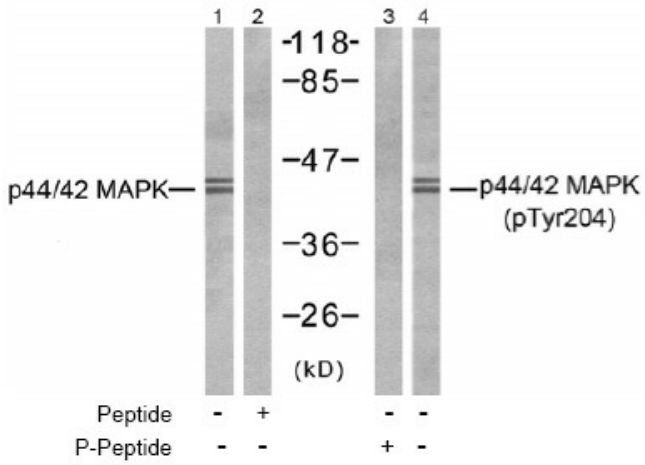

Figure 2. Western blot analysis of extracts from NIH-3T3 cells, using p44/42 MAP Kinase antibody (Line 1 and 2) and p44/42 MAP Kinase (pTyr204) antibody (AP02499PU, Line 3 and 4).

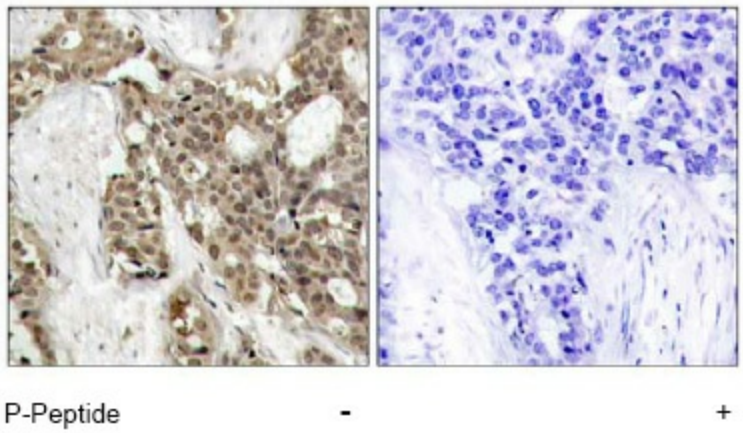

Figure 1. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using p44/42 MAP Kinase antibody (AP02499PU).

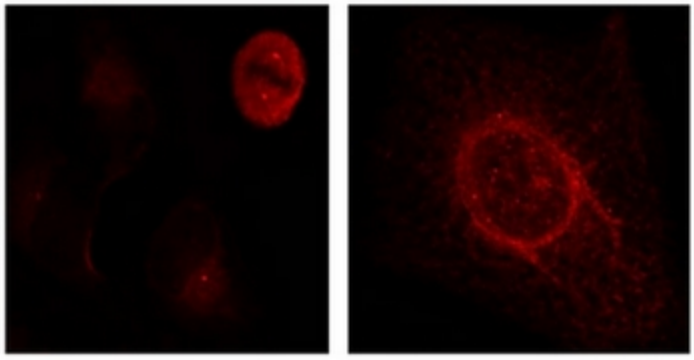

Figure 3. Immunofluorescence staining of methanol-fixed HeLa cells showing centrosome and nuclear staining using p44/42 MAP Kinase (phospho-Tyr204) antibody (AP02499PU).