

Rabbit Phospho-ERK3-S189 Polyclonal Antibody | anti-MAPK6 antibody

Phospho-ERK3-S189 Antibody

CATALOG # AAA289488	HOST Rabbit	REACTIVITY Human Predicted Reactivity: Mouse, Rat, Chicken	APPLICATIONS Immunohistochemistry, ELISA
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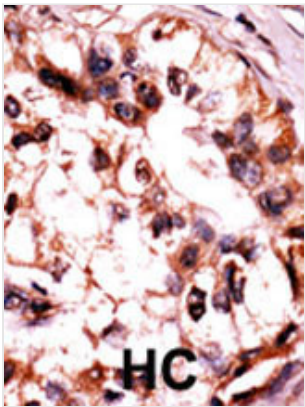
PRODUCT SYNONYMS

Phospho-ERK3-S189; Polyclonal Antibody; Phospho-ERK3-S189 Antibody; Mitogen-activated protein kinase 6; MAP kinase 6; MAPK 6; Extracellular signal-regulated kinase 3; ERK-3; MAP kinase isoform p97; p97-MAPK; MAPK6; ERK3; PRKM6; anti-MAPK6 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted Reactivity: Mouse, Rat, Chicken
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This Phospho-ERK3-S189 antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S189 of human ERK3.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Length	721
Applicable Applications for anti-MAPK6 antibody	IHC (Immunohistochemistry), ELISA
Function	Atypical MAPK protein. Phosphorylates microtubule-associated protein 2 (MAP2) and MAPKAPK5. The precise role of the complex formed with MAPKAPK5 is still unclear, but the complex follows a complex set of phosphorylation events: upon interaction with atypical MAPKAPK5, ERK3/MAPK6 is phosphorylated at Ser-189 and then mediates phosphorylation and activation of MAPKAPK5, which in turn phosphorylates ERK3/MAPK6. May promote entry in the cell cycle (By similarity).
Cellular Location	Cytoplasm. Nucleus. Note=Translocates to the cytoplasm following interaction with MAPKAPK5
Tissue Location	Highest expression in the skeletal muscle, followed by the brain. Also found in heart, placenta, lung, liver, pancreas, kidney and skin fibroblasts.
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

ADDITIONAL INFORMATION

Related Product Information for anti-MAPK6 antibody	ERK3 is a member of the Ser/Thr protein kinase family, and is most closely related to mitogen-activated protein kinases (MAP kinases). MAP kinases also known as extracellular signal-regulated kinases (ERKs), are activated through protein phosphorylation cascades and act as integration points for multiple biochemical signals. This kinase is localized in the nucleus, and has been reported to be activated in fibroblasts upon treatment with serum or phorbol esters.
Product Categories/Family for anti-MAPK6 antibody	Signal Transduction; Phospho Antibodies
References	Rai, R., et al., Oral Oncol. 40(7):705-712 (2004). Coulombe, P., et al., Mol. Cell. Biol. 24(14):6140-6150 (2004). Coulombe, P., et al., Mol. Cell. Biol. 23(13):4542-4558 (2003). Julien, C., et al., J. Biol. Chem. 278(43):42615-42624 (2003). Robinson, M.J., et al., J. Biol. Chem. 277(7):5094-5100 (2002).

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506091
NCBI GeneID	5597
NCBI Accession #	NP_002739.1
NCBI GenBank Nucleotide #	NM_002748.3
UniProt Accession #	Q16659; Q68DH4; Q8IYN8; B2R945; B5BU65
NCBI Official Full Name	mitogen-activated protein kinase 6
NCBI Official Synonym Full Names	mitogen-activated protein kinase 6
NCBI Official Symbol	MAPK6
NCBI Official Synonym Symbols	ERK3; PRKM6; p97MAPK; HsT17250
NCBI Protein Information	mitogen-activated protein kinase 6
UniProt Protein Name	Mitogen-activated protein kinase 6
UniProt Gene Name	MAPK6
UniProt Synonym Gene Names	ERK3; PRKM6; MAP kinase 6; MAPK 6; ERK-3; p97-MAPK

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/phospho-erk3-s189-antibody-immunohistochemistry-elisa/289488>