

Rabbit MAPK7 Polyclonal Antibody | anti-MAPK7 antibody

MAPK7 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA169527	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot

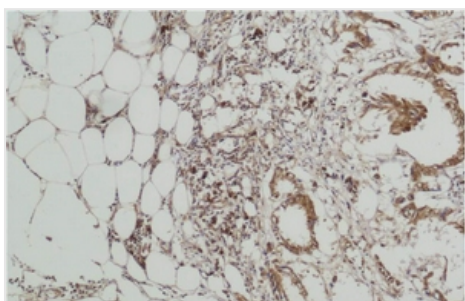
PRODUCT SYNONYMS

MAPK7; Polyclonal Antibody; MAPK7 Antibody; BMK1; ERK4; ERK5; PRKM7; anti-MAPK7 antibody

PRODUCT SPECIFICATIONS

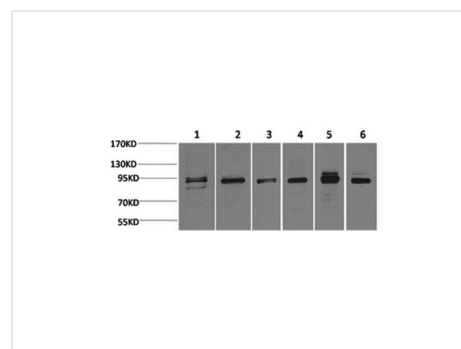
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Antigen affinity purification
Concentration	1mg/mL (varies by lot)
Sequence Length	816
Applicable Applications for anti-MAPK7 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant protein of human MAPK7
Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-1286 / sc-1284 / sc-1285 / sc-5626
Preparation and Storage	Store at -20 degree C (regular) and -80 degree C (long term). Avoid freeze / thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded Human breast carcinoma tissue with ERK 5 Polyclonal Antibody.



WB (Western Blot)

Western Blot analysis of 1) HeLa, 2) 293T, 3) 3T3, 4) Mouse skeletal muscle, 5) Rat kidney, 6) Rat skeletal muscle with ERK 5 Polyclonal Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-MAPK7 antibody	ERK5 (Mitogen-activated protein kinase 7, Big mitogen-activated protein kinase 1) is a member of the MAPK superfamily implicated in the regulation numerous cellular processes including proliferation, differentiation, and survival (1, 5-7). Like other MAPK family members, ERK5 contains a canonical activation loop TEY motif (Thr218/Tyr220) which is specifically phosphorylated by MAP2K5 (MEK5) in a growth factor-dependent, Ras-independent mechanism (2-4). For example, EGF stimulation promotes ERK5 phosphorylation which induces its traslocation to the nucleus where it phosphorylates MEF2C and other transcriptional targets (2, 3). ERK5 is also activated in response to granulocyte colony-stimulating factor (G-CSF) in hematopoetic progenitor cells where it promotes survival and proliferation (4). In neuronal cells, ERK5 is required for NGF-induced neurite outgrowth, neuronal homeostatis, and survival (11, 12). ERK5 is thought to play a role in blood vessel integrity via maintainence of endothelial cell migration and barrier function (8-10). Although broadly expressed, research studies have shown that mice lacking erk5 display numerous cardiac defects, suggesting ERK5 plays a critical role in vascular development and homeostasis (1, 5).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	205371766
NCBI GeneID	5598
Molecular Weight	50,152 Da
NCBI Official Full Name	Mitogen-activated protein kinase 7
NCBI Official Synonym Full Names	mitogen-activated protein kinase 7
NCBI Official Symbol	MAPK7
NCBI Official Synonym Symbols	BMK1; ERK4; ERK5; PRKM7
NCBI Protein Information	mitogen-activated protein kinase 7; BMK-1; BMK1 kinase; ERK-5; MAP kinase 7; MAPK 7; big MAP kinase 1; extracellular signal-regulated kinase 5; extracellular-signal-regulated kinase 5
UniProt Protein Name	Mitogen-activated protein kinase 7
UniProt Gene Name	MAPK7
UniProt Synonym Gene Names	BMK1; ERK5; PRKM7; MAP kinase 7; MAPK 7; BMK-1; ERK-5
UniProt Entry Name	MK07_HUMAN

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://www.aaabiotech.com/polyclonal/mapk7-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/169527>