

Rabbit ERK1/2 Monoclonal Antibody | anti-ERK1/2 antibody

ERK1/2 Antibody

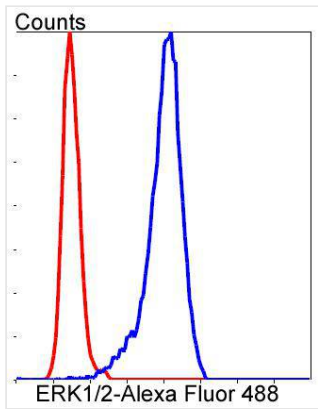
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA29977	Rabbit	Human, Mouse, Rat, Zebrafish	Western Blot, Immunocytochemistry, Immunofluorescence, Immunoprecipitation, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

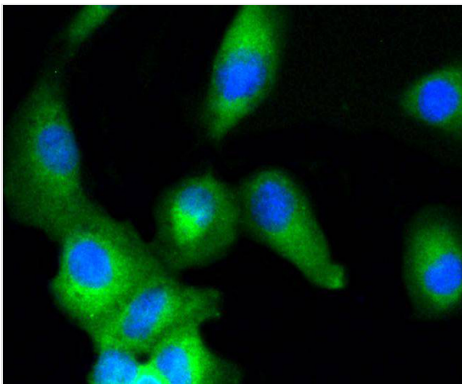
ERK1/2; Monoclonal Antibody; ERK1/2 Antibody; ERK 1 antibody; ERK 2 antibody; ERK-2 antibody; ERK1 antibody; erk1/2 antibody; ERK2 antibody; ERT1 antibody; ERT2 antibody; Extracellular signal regulated kinase 1 antibody; Extracellular signal-regulated kinase 2 antibody; MAP kinase 1 antibody; MAP kinase 2 antibody; MAP kinase isoform p42 antibody; MAP kinase isoform p44 antibody; MAPK 1 antibody; MAPK 2 antibody; MAPK 3 antibody; Mapk1 antibody; MAPK2 antibody; MAPK3 antibody; Mitogen-activated protein kinase 1 antibody; Mitogen-activated protein kinase 2 antibody; MK01_HUMAN antibody; p38 antibody; p40 antibody; p41 antibody; p42-MAPK antibody; PRKM 2 antibody; anti-ERK1/2 antibody

PRODUCT SPECIFICATIONS

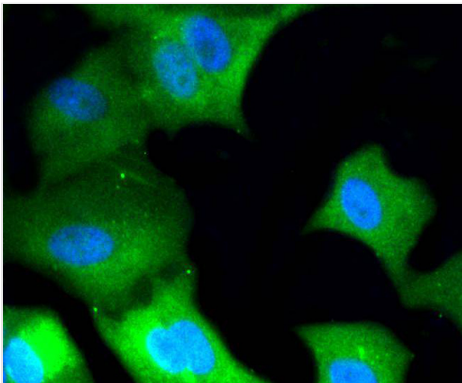
Host	Rabbit
Reactivity	Human, Mouse, Rat, Zebrafish
Clonality	Monoclonal
Clone Number	SA43-03
Purity/Purification	ProA affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-ERK1/2 antibody	WB (Western Blot), ICC (Immunocytochemistry), IF (Immunofluorescence), IP (Immunoprecipitation), FCM/FACS (Flow Cytometry)
Application Notes	WB: 1:1000-5000 ICC: 1:50-1:200 FC/FACS: 1:50-1:100
Antibody Type	Recombinant Antibody
Immunogen	Recombinant protein
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.



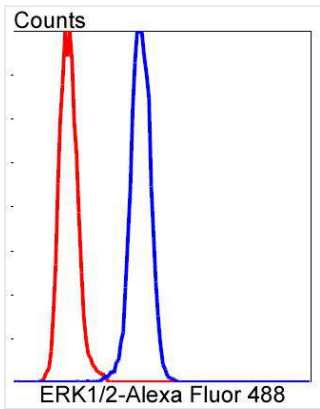
FCM (Flow Cytometry)
Flow cytometric analysis of SH-SY-5Y cells with ERK1/2 antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.



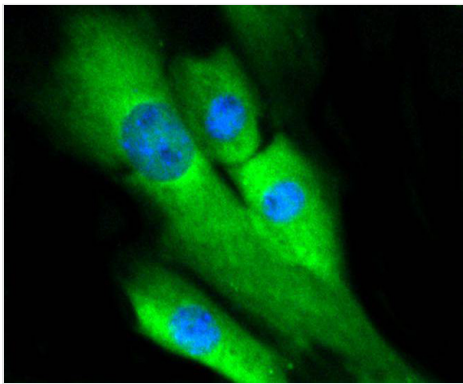
ICC (Immunocytochemistry)
ICC staining ERK1/2 in A549 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



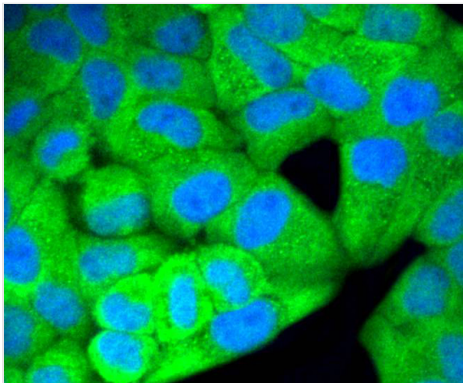
ICC (Immunocytochemistry)
ICC staining ERK1/2 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



FCM (Flow Cytometry)
Flow cytometric analysis of Hela cells with ERK1/2 antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.



ICC (Immunocytochemistry)
ICC staining ERK1/2 in NIH/3T3 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC (Immunocytochemistry)
ICC staining ERK1/2 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

ADDITIONAL INFORMATION

Related Product Information for anti-ERK1/2 antibody	Mitogen-activated protein kinase (MAPK) signaling pathways involve two closely related MAP kinases, known as extracellular-signal-related kinase 1 (ERK 1, p44) and 2 (ERK 2, p42). Growth factors, steroid hormones, G protein-coupled receptor ligands and neurotransmitters can initiate MAPK signaling pathways. Activation of ERK 1 and ERK 2 requires phosphorylation by upstream kinases such as MAP kinasekinase (MEK), MEK kinase and Raf-1. ERK 1 and ERK 2 phosphorylation can occur at specific tyrosine and threonine sites mapping within consensus motifs that include the threonine-glutamate-tyrosine motif. ERK activation leads to dimerization with other ERKs and subsequent localization to the nucleus. Active ERK dimers phosphorylate serine and threonine residues on nuclear proteins and influence a host of responses that include proliferation, differentiation, transcription regulation and development. The human ERK 1 gene maps to chromosome 16p11.2 and encodes a 379 amino acid protein that shares 83% sequence identity to ERK 2. The human ERK2 gene maps to chromosome 22q11.21 and encodes a 360-amino acid protein.
Product Categories/Family for anti-ERK1/2 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	91718897
NCBI GeneID	5595
NCBI Accession #	NP_001035145.1
NCBI GenBank Nucleotide #	NM_001040056.2
UniProt Accession #	P27361; Q8NHX1; A8CZ58; B0LPG3
Molecular Weight	43,136 Da
NCBI Official Full Name	mitogen-activated protein kinase 3 isoform 2
NCBI Official Synonym Full Names	mitogen-activated protein kinase 3
NCBI Official Symbol	MAPK3
NCBI Official Synonym Symbols	ERK1; ERT2; ERK-1; PRKM3; P44ERK1; P44MAPK; HS44KDAP; HUMKER1A; p44-ERK1; p44-MAPK
NCBI Protein Information	mitogen-activated protein kinase 3; MAPK 1; MAP kinase isoform p44; insulin-stimulated MAP2 kinase; extracellular signal-related kinase 1; extracellular signal-regulated kinase 1; microtubule-associated protein 2 kinase
UniProt Protein Name	Mitogen-activated protein kinase 3
UniProt Gene Name	MAPK3
UniProt Synonym Gene Names	ERK1; PRKM3; MAP kinase 3; MAPK 3; ERK-1; p44-MAPK
UniProt Entry Name	MK03_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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/erk1-2-antibody-clone-sa43-03-western-blot-immunocytochemistry-immunofluorescence-immunoprecipitation-flow-cytometry-elisa/29977>