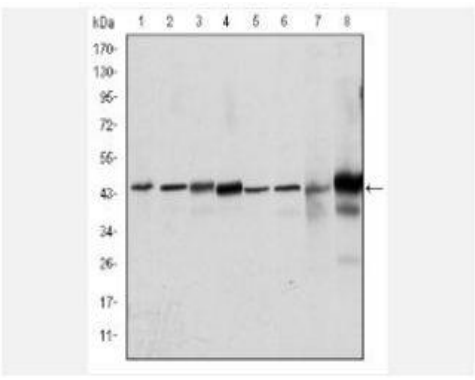
PRODUCT DATA SHEET

ERK 1 Monoclonal Antibody

Catalog No.	IMB0114
Reactivity	Human;Mouse;Rat;Monkey
Applications	WB; IHC-p; IF/ICC; FCM; ELISA
Gene Name	MAPK3
Protein Name	Mitogen-activated protein kinase 3
Human Gene Id	5595
Swiss-Prot	P27361
Formulation	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source	Monoclonal, Mouse
Dilution	WB: 1:500-1:2000 IHC: 1:200-1:1000 IF: 1:200-1:1000 FCM: 1:200-1:400 ELISA: 1:10000
PurIF:ication	Affinity purIF:ication
Concentration	-
Storage&Stability	-20°C/1 year
Background	The protein encoded by this gene is a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act in a signaling cascade that regulates various cellular processes such as prolIF:eration, dIF:ferentiation, and cell cycle progression in response to a variety of extracellular signals. This kinase is activated by upstream kinases, resulting in its translocation to the nucleus where it phosphorylates nuclear targets. Alternatively spliced transcript variants encoding dIF:ferent protein isoforms have been described. [provided by RefSeq, Jul 2008],
Subcellular Location.	Cytoplasm. Nucleus. Membrane, caveola. Cell junction, focal adhesion. Autophosphorylation at Thr-207 promotes nuclear localization. PEA15-binding redirects the biological outcome of MAPK3 kinase-signaling by sequestering MAPK3 into the cytoplasm (By similarity).
BiowMW	-

Products Images:



Western Blot analysis using ERK 1 Monoclonal Antibody against HeLa (1), Jurkat (2), RAW264.7 (3), HEK293 (4), K562 (5), NIH/3T3 (6), Cos7 (7) and PC-12 (8) cell lysate.

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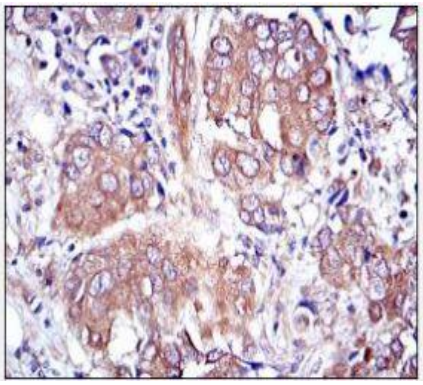
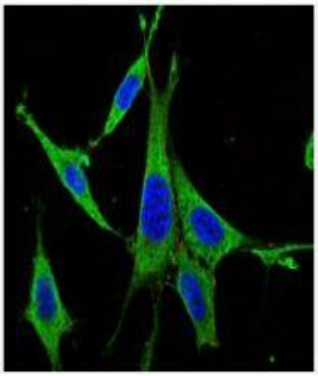
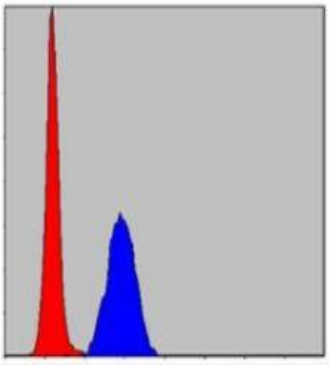


Immunohistochemistry analysis of paraffin-embedded breast cancer tissues with DAB staining using ERK 1 Monoclonal Antibody.



Immunofluorescence analysis of NIH/3T3 cells using ERK 1 Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Flow cytometric analysis of Hela cells using ERK 1 Monoclonal Antibody (blue) and negative control (red).