9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

45-1038: Rabbit Polyclonal Antibody to ERK2(Discontinued)

Clonality :	Polyclonal
Application :	ELISA
Reactivity :	Human
Gene :	MAPK1
Gene ID :	5594
Uniprot ID :	P28482
Format :	Purified
Alternative Name :	ERK2 pAb, ERT1, Extracellular signal-regulated kinase 2, MAP kinase isoform p42, Mitogen-activated protein kinase 2, ERK2, PRKM1, PRKM2
Isotype :	Rabbit IgG
Immunogen Information :	KLH-coupled synthetic peptide corresponding to 300-322 residues of human ERK2 .

Description

ERK (extracellular signal regulated kinase), also known as MAPK (mitogen activated protein kinase) includes two closely related isoforms ERK1 and ERK2 (p44 and p42 MAP Kinase). ERK1/2 signaling pathway can be activated in response to a diverse range of extracellular stimuli including mitogens, growth factors, and cytokines. The downstream effects of ERK1/2 signaling pathway are linked to the regulation of cell growth and differentiation as well as the cytoskeleton. Downstream targets of ERK1/2 contain p90RSK and the transcription factor Elk-1. ERK1 and ERK2 are phosphorylated within the activation loop on both a threonine and a tyrosine residue (within a Thr-Glu-Tyr motif) by MEKs (MAPK/ERK kinases), thereby greatly elevating the activity of ERK1/2. ERK1/2 are negatively regulated by a family of dual-specificity (Thr/Tyr) MAPK phosphatases. Rabbit Anti-ERK2 Polyclonal Antibody is developed in rabbit using a KLH-coupled synthetic peptide (KRIEVEQALAHPYLEQYYDPSDE) corresponding to 300-322 residues of human ERK2 (Swiss Prot: P28482).

Product Info

Amount :	40 µg
Purification :	Immunoaffinity chromatography
Content :	0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02% sodium azide
Storage condition :	The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.

Application Note

ELISA: 0.05-0.2 µg/ml
Western blot: 1-2 µg/ml

9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

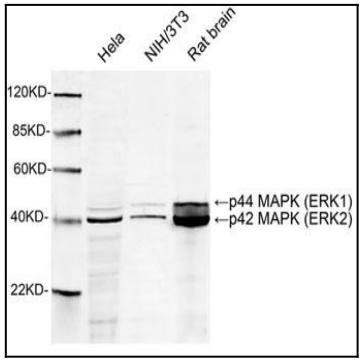

Figure-1 : Western blot analysis of ERK2 Antibody at 1 µg/ml on HeLa, NIH/3T3 cell lysate & Rat brain tissue. IRDye 800 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody.

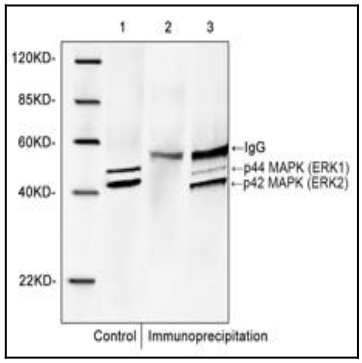

Figure-2 : Western blot analysis of ERK2 Antibody on immunoprecipitates from rat brain lysate, 1: Input control material for rat brain lysate, 2: Negative control with isotype control antibody, 3: Immunprecipitation with ERK2 Antibody.

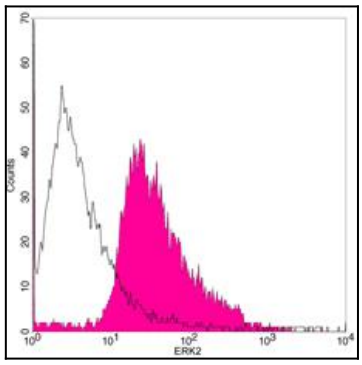

Figure-3 : Flow cytometric analysis of ERK2 antibody on HeLa cells, Shaded histogram represents ERK2 antibody and open histogram represents isotype control. R-PE conjugated anti-rabbit IgG used as secondary antibody.