AB-PK879

ERK1-pS283 Antibody

Phosphosite-specific rabbit polyclonal antibody for ERK1 (MAPK3). This phosphoserine-site antibody also cross-reacts with a phosphothreonine substitution in the phosphosite.

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Target Protein

Protein Name Long:	Extracellular regulated protein-serine kinase 1 (p44 MAP kinase)
Protein Alias:	ERK-1; ERT2; Insulin-stimulated MAP2 kinase; Kinase ERK1; MAP kinase 1; MAPK 1; MAPK1; MAPK3; PRKM3; p44ERK1; p44MAPK; MGC20180; ENSG00000102882
UniProt ID:	P27361
Protein Molecular Mass:	43,136 Da (379 AA; P27361); 40,088 Da (357 AA; P27361-3); 38,275 Da (335 AA; P27361-2)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human ERK1
Antibody Immunogen Sequence:	YLQ(pS)LPS(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues Y280 to S286. The effect of S283 phosphorylation is unknown. Phosphorylation of S283 has not been observed in reported mass spectrometry studies with human ERK1, although it was found in hamster ERK1.
Antibody Target Type:	Phosphosite-specific

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Isotype:	IgG
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipep peptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from these animals was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris.
Amount:	25 µg
Antibody Concentration:	0.7 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
Storage Conditions:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.
Storage Stability:	>2 years

Applications

Product Use:	Western blotting | Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human | Chimpanzee | Dog | Rat | Mouse | Zebra fish | Fruit fly | Honey bee | Sea urchin