

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ERK1 in Western blots. Does not detect recombinant or endogenous human ERK2 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human ERK1 Ala2-Pro379 Accession # P27361
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

ERK1 (also known as MAPK3, Mitogen-activated protein kinase 3) is a 44 kDa phosphoprotein. It is Serine/threonine protein kinase which acts as an essential component of the MAP kinase signal transduction pathway. ERK1 was initially isolated and cloned as a kinase activated in response to insulin and NGF. It is expressed in most, if not all, mammalian tissues. Dual threonine and tyrosine phosphorylation activates human ERK1 at Thr202/Tyr204. Within the range used as an immunogen human and mouse ERK1 share 97% amino acid sequence identity.

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