

Human ERK1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1879

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	E. coli-derived recombinant human ERK1 Ala2-Pro379 Accession # P27361		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

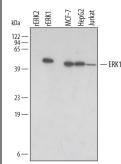
APPLICATIONS

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.

	Recommended Concentration	Sample
Western Blot	0.2 μg/mL	See Below

DATA

Western Blot



Detection of Human ERK1 by Western Blot. Western blot shows lysates of MCF-7 human breast cancer cell line, HepG2 human hepatocellular carcinoma cell line, and Jurkat human acute T cell leukemia cell line. PVDF membrane was probed with 0.2 μg/mL Goat Anti-Human ERK1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1879) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). For additional reference, Recombinant Human Active ERK1 (Catalog # 1879-KS) and Recombinant Human Active ERK2 (Catalog # 1320-KS) (2 ng/lane) were included. A specific band for ERK1 was detected at approximately 43 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS.

ShippingThe product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

ERK1 (also known as MAPK3, Mitogen-activated protein kinase 3) is a 44 kDa phosphoprotein. It is Serine/threonine proteinkinase 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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