

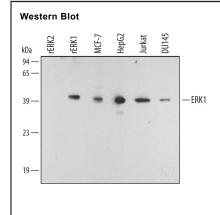
Human ERK1 Antibody

Antigen Affinity-purified Polyclonal Rabbit IgG Catalog Number: AF1940

DESCRIPTION			
Species Reactivity	Human		
Specificity	city Detects human ERK1 in Western blots. Because the peptide immunogen corresponds to a region of ERK1 largely absent in EF reactivity with ERK2 is present.		
Source	Polyclonal Rabbit IgG		
Purification	Antigen Affinity-purified		
Immunogen	Human ERK1 synthetic peptide Met1-Val28 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.		

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	0.1 μg/mL	See Below



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, Jurkat human acute T cell leukemia cell line, and DU145 human prostate carcinoma cell line. PVDF membrane was probed with 0.1 µg/mL Rabbit Anti-Human ERK1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1940) followed by HRPconjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). For additional reference, Recombinant Human Active ERK1 (Catalog # 1879-KS) and Recombinant Human Active ERK2 (Catalog # 1230-KS) (2 ng/lane) were included. A specific band for ERK1 was detected at approximately 42 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

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

*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 is a protein Serine/Threonine kinase that is a member of the extracellular signal-regulated kinases (ERKs) which are activated in response to numerous growth factors and cytokines (1). Activation of ERK1 requires both tyrosine and threonine phosphorylation that is mediated by MEK. ERK1 is ubiquitously distributed in tissues with the highest expression in heart, brain, and spinal cord. Activated ERK1 translocates into the nucleus where it phosphorylates various transcription factors.

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