

DESCRIPTION

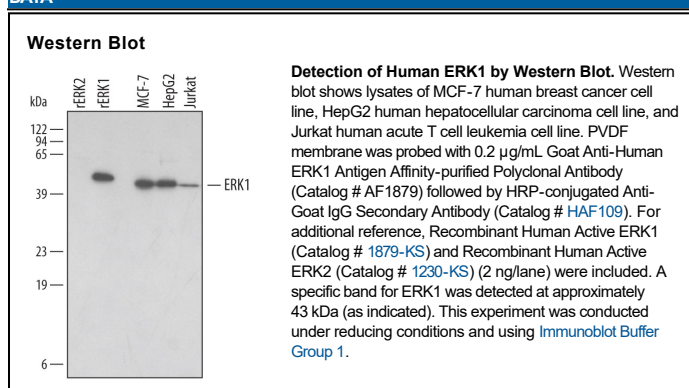
Species Reactivity	Human
Specificity	Detects human ERK1 in Western blots. Does not detect recombinant or endogenous human ERK2 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human ERK1 Ala2-Pro379 Accession # P27361
Formulation	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



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The 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. <ul style="list-style-type: none"> 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 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.