Phospho-ERK1/ERK2 (ERK1 T202/Y204, ERK2 T185/Y187) Alexa Fluor® 750-conjugated Antibody

Monoclonal Rabbit IgG Clone # 269434
Catalog Number: IC1018S
100 µg

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat ERK1 and ERK2 dually phosphorylated at T202/Y204 or T185/Y187, respectively.
Source	Monoclonal Rabbit IgG Clone # 269434
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Phosphopeptide containing ERK1 T202/Y204 site
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.*

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25-1 µg/10^6 cells	Jurkat human acute T cell leukemia cell line treated with PMA, fixed with paraformaldehyde and permeabilized with ice-cold methanol

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 and ERK2 (also known as MAPK3 and MAPK1) are 44- and 42-kDa Ser/Thr kinases, respectively. They are part of the Ras-Raf-ERK signal transduction cascade often found downstream of growth factor receptor activation. ERK1 and ERK2 were initially isolated and cloned as kinases activated in response to insulin and NGF. They are expressed in most, if not all, mammalian tissues. Dual threonine and tyrosine phosphorylation activate both ERKs, at Thr202/Tyr204 for human ERK1 and Thr185/Tyr187 for human ERK2. The two proteins share 83% amino acid identity, differing mainly at the N and C termini.

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