

Human/Mouse/Rat ERK2 Alexa Fluor® 750-conjugated Antibody

Antigen Affinity-purified Polyclonal Rabbit IgG Catalog Number: AF1230S 100 µg

DESCRIPTION		
Species Reactivity	Human/Mouse/Rat	
Specificity	Detects human, mouse, and rat ERK2. Also recognizes ERK1 in some cell types at much lower affinity.	
Source	Polyclonal Rabbit IgG	
Purification	Antigen and protein A Affinity-purified	
Immunogen	E. coli-derived recombinant human ERK2 Met1-Ser360 Accession # P28482	
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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.		
Knockout Validated	Optimal dilution of this antibody should be experimentally determined.	
Western Blot	Optimal dilution of this antibody should be experimentally determined.	
Immunohistochemistry	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 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. Within the range used as an immunogen, human, mouse, and rat ERK1 share 100% amino acid sequence identity.

PRODUCT SPECIFIC NOTICES

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