

ERK1/ERK2 Polyclonal Antibody

Catalog NumberPA1-25987

Product data sheet

| Details            |  | Species Reactivity   |                           |
|--------------------|--|--|---------------------------|
| Size               | 50 µL  | Species reactivity   | Bovine, Human, Mouse, Rat |
| Host/Isotope       | Rabbit / IgG   | Tested Applications  | Dilution *                |
| Class              | Polyclonal   |  |                           |
| Type               | Antibody   | Western Blot (WB)  | 1:1,000                   |
| Immunogen          | Synthetic peptide corresponding to the C-terminal residues 317-339 of human ERK1 + ERK2.     | * Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls. |                           |
| Conjugate          | Unconjugated   |  |                           |
| Form               | Liquid   |  |                           |
| Storage Conditions | Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles. |  |                           |

Product specific information

PA1-25987 detects ERK1 + ERK2 from human, mouse, rat, and bovine samples. PA1-25987 has been successfully used in Western blot procedures. The PA1-25987 immunogen is a synthetic peptide corresponding to the C-terminal residues 317-339 of human ERK1 + ERK2.

Background/Target Information

ERK1 and ERK2 are widely expressed and are involved in the regulation of meiosis, mitosis, and postmitotic functions in differentiated cells. Many different stimuli, including growth factors, cytokines, virus infection, ligands for heterotrimeric guanine nucleotide-binding protein (G protein)-coupled receptors and transforming agents, activate the ERK1 and ERK2 pathways. When growth factors bind to the receptor tyrosine kinase, Ras interacts with Raf, the serine/threonine protein kinase and activates it as well. Once activated, Raf phosphorylates serine residue in 2 further kinases, MEK1/2, which in turn phosphorylates tyrosine/threonine in extracellular-signal regulated kinase (ERK) 1/2. Upon activation, the ERKs either phosphorylate a number of cytoplasmic targets or migrate to the nucleus, where they phosphorylate and activate a number of transcription factors such as c-Fos and Elk-1.

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