

Human/Mouse ERK5/BMK1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF2848

DESCRIPTION			
Species Reactivity	Human/Mouse		
Specificity	Detects human and mouse ERK5/BMK1 in Western blots.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human ERK5/BMK1 Met1-Glu432 Accession # Q13164		
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.		

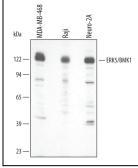
APPLICATIONS

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	1 μg/mL	See Below
Immunocytochemistry	10-25 μg/mL	See Below

DATA

Western Blot



Detection of Human/Mouse ERK5/BMK1 by Western Blot. Western blot shows lysates of MDA-MB-468 human breast cancer cell line, Raji human Burkitts lymphoma cell line, and Neuro-2A mouse neuroblastoma cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human/Mouse ERK5/BMK1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2848) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for ERK5/BMK1 at approximately 115 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1

Immunocytochemistry

ERK5/BMK1 in HeLa Human Cell Line.
ERK5/BMK1 was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Goat Anti-Human/Mouse ERK5/BMK1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2848) at 15 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm and nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coversilips.

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

- 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

Extracellular signal-regulated kinase 5 (ERK5), also known as big mitogen-activated protein kinase 1 (BMK1) and MAPK7, is activated by a several mechanisms, including receptor tyrosine kinases, G protein-coupled receptors, and osmotic stress. Like ERK1 and ERK2, ERK5 contains the conserved Thr-Glu-Tyr activation motif in its activation loop. Unlike these ERKs, however, ERK5 contains a unique C-terminal domain that regulates its activation and nuclear translocation. ERK5's upstream MAPK kinase has been identified as MEK5.

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