

# **Human/Mouse ERK5/BMK1 Antibody**

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF2848

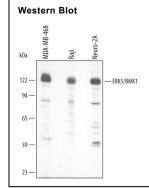
DESCRIPTION		
Species Reactivity	Human/Mouse	
Specificity	Detects human and mouse ERK5/BMK1 in Western blots.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-derived recombinant human ERK5/BMK1 Met1-Glu432 Accession # Q13164	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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	5-15 μg/mL	Immersion fixed human peripheral blood mononuclear cells

#### DATA



Detection of Human/Mouse ERK5/BMK1 by Western Blot. Western blot shows lysates of MDA-MB-468 human breast cancer cell line, Raji human breast cancer cell line, Raji human burkitt's 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.

# 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.

- 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.

