

# **Human MLK3 Antibody**

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF4559

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects endogenous human MLK3 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	E. coli-derived recombinant human MLK3 Ala85-Gly207 Accession # Q16584
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.

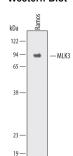
### APPLICATIONS

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

#### DATA

# Western Blot



Detection of Human MLK3 by Western Blot. Western blot shows lysates of Ramos human Burkitt's lymphoma cell line. PVDF membrane was probed with 1 µg/mL of Human MLK3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4559) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for MLK3 at approximately 93 kDa (as indicated). This experiment was conducted 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

Mixed-lineage kinases (MLKs) function as mitogen-activated protein kinase kinases (MAP3Ks), activating the MAPK signaling cascades. MLK3, also known as MAP3K11 and PTK1, encodes a protein of 847 amino acids (aa) that shares an unusual leucine zipper-basic motif found in other MLKs. Small interfering RNA experiments have indicated that MLK3 is required for both mitogen and cytokine activation of JNK1, p38 $\alpha$ , and ERK1.

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