biotechne® RD SYSTEMS

Human/Mouse/Rat PAK4 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF4178

DESCRIPTION	
Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse and rat PAK4 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PAK4 Met1-Glu120 Accession # O96013
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	2 µg/mL	See Below	
Simple Western	5 μg/mL	MCF-7 human breast cancer cell line	

DATA

Western Blot	Simple Western
Detection of Human/Mouse/Rat PAK4 by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line, MCF-7 human breast cancer cell line, PT18 mouse mast/basophil cell line, and NIH-3T3 mouse embryonic fibroblast cell line. PVDF membrane was probed with 2 µg/mL of Human/Mouse/Rat PAK4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4178) followed by HRP- conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for PAK4 at approximately 72 kDa (as indicated). This experiment was conducted using Immunoblot Buffer Group 1.	Building Detection of Human PAK4 by Simple Western M. Simple Western Shows lysates of MCF-7 Numan breast cancer cell line, loaded at 0.5 mg/ml. A specific 180- loaded at 0.5 mg/ml. A specific 166- - 40- - 12- Image: Specific line line line line line line line line

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.	
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.	
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

As downstream targets of the Rho GTPases, the p21-activated kinase (PAK) family of serine/threonine kinases regulates the organization of the actin cytoskeleton in mammalian cells. The PAK family is structurally categorized in two groups, each with three members: group I PAK1-3; and group II PAK4-6. Targeted disruption of PAK4 in mice leads to severe defects in the development and migration of neurons, suggesting a key role for this kinase in neuronal development.

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