# biotechne

## Human HIPK1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF5617

RDSYSTEMS

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects endogenous human HIPK1 in Western blots. Approximately 15% cross reactivity to HIPK2 is observed in Western blot.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	<i>E. coli-</i> derived recombinant human HIPK1 Gln701-Ser900 Accession # Q86Z02	
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 k0a 206 − 118 − 97 − 54 − 37 −	Detection of Human HIPK1 by Western Blot. Western blot shows lysates of 293T human embryonic kidney cell line and HeLa human cervical epithelial carcinoma cell line. PVDF membrane was probed with 1 µg/mL of Human HIPK1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5617) followed by HRP-conjugated Anti- Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for HIPK1 at approximately 130 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.	
PREPARATION AND S	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	<ul> <li>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</li> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>	

#### BACKGROUND

HIPK1 (Homeodomain-interacting protein kinase 1) is a 120-130 kDa member of the HIPK subfamily, CMGC Ser/Thr family of protein kinases. It is ubiquitously expressed, and plays a role in transcriptional regulation and signal transduction. Human HIPK1 is 1210 amino acids (aa) in length. It contains a protein kinase domain (aa 190-518) that phosphorylates itself as well as Daxx and p53, an interaction region between aa 581-847, a PEST sequence (aa 889-973) and a YH domain (aa 1066-1209) that recruits CtBP. Four different splice variants have been identified. Over aa 701-900, human and mouse HIPK1 share 97% aa identity.

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