

Datasheet for ABIN6145183  
**anti-PAK1 antibody (AA 1-240)**[Go to Product page](#)

## 5 Images

## Overview

Quantity:	100 µL
Target:	PAK1
Binding Specificity:	AA 1-240
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PAK1 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-240 of human PAK1 (NP_002567.3).
Sequence:	MSNNGLDIQD KPPAPPMRNT STMIGAGSKD AGTLNHGSKP LPPNPPEKKK KDRFYRSILP GDKTNNKKKEK ERPEISLPSD FEHTIHVGFD AVTGEFTGMP EQWARLLQTS NITKSEQKKN PQAVLDVLEF YNSKKTNSQ KYMSFTDKSA EDYNSSNALN VKAVSETPAV PPVSEDEDDDD DDDATPPPVI APRPEHTKSV YTRSVIEPLP VTPTRDVATS PISPTENNTT PPDALTRNTE
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Characteristics:	Polyclonal Antibodies

## Target Details

Target:	PAK1
Alternative Name:	PAK1 ( <a href="#">PAK1 Products</a> )
Background:	<p>This gene encodes a family member of serine/threonine p21-activating kinases, known as PAK proteins. These proteins are critical effectors that link RhoGTPases to cytoskeleton reorganization and nuclear signaling, and they serve as targets for the small GTP binding proteins Cdc42 and Rac. This specific family member regulates cell motility and morphology. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.,PAK1,PAKalpha,Epigenetics &amp; Nuclear Signaling,Cancer,Signal Transduction,Kinase,Serine/threonine kinases,ErbB-HER Signaling Pathway,MAPK-Erk Signaling Pathway,Cell Biology &amp; Developmental Biology,Apoptosis,Cytoskeleton,Microtubules,Actins,TGF-b-Smad Signaling Pathway,Immunology &amp; Inflammation,PAK1</p>
Molecular Weight:	60 kDa/61 kDa
Gene ID:	5058
UniProt:	<a href="#">Q13153</a>
Pathways:	<a href="#">MAPK Signaling</a> , <a href="#">RTK Signaling</a> , <a href="#">TCR Signaling</a> , <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">Intracellular Steroid Hormone Receptor Signaling Pathway</a> , <a href="#">Regulation of Intracellular Steroid Hormone Receptor Signaling</a> , <a href="#">Skeletal Muscle Fiber Development</a> , <a href="#">CXCR4-mediated Signaling Events</a> , <a href="#">Signaling Events mediated by VEGFR1 and VEGFR2</a> , <a href="#">Signaling of Hepatocyte Growth Factor Receptor</a> , <a href="#">Embryonic Body Morphogenesis</a>

## Application Details

Application Notes:	WB,1:500 - 1:2000
Restrictions:	For Research Use only

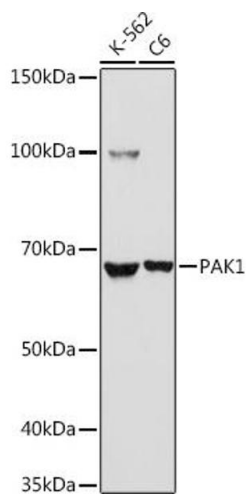
## Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

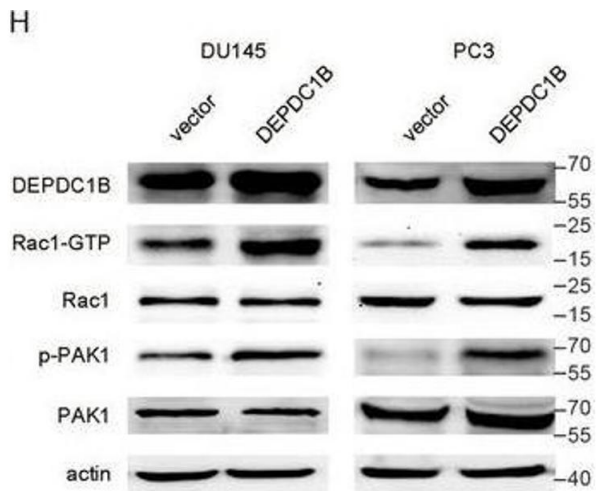
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



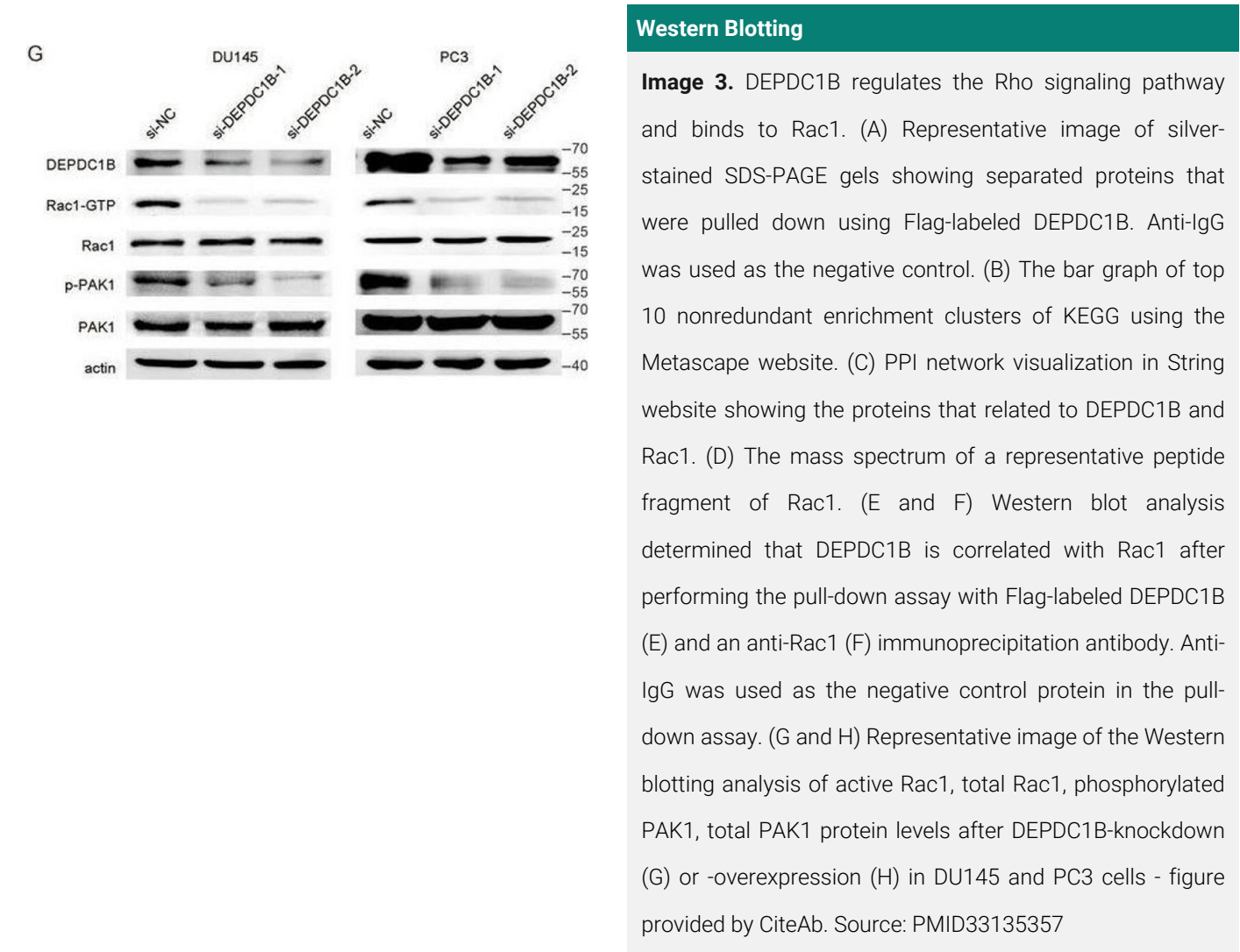
**Western Blotting**

**Image 1.** Western blot analysis of extracts of various cell lines, using P antibody (ABIN6130602, ABIN6145183, ABIN6145185 and ABIN6213991) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.



**Western Blotting**

**Image 2.** DEPDC1B regulates the Rho signaling pathway and binds to Rac1. (A) Representative image of silver-stained SDS-PAGE gels showing separated proteins that were pulled down using Flag-labeled DEPDC1B. Anti-IgG was used as the negative control. (B) The bar graph of top 10 nonredundant enrichment clusters of KEGG using the Metascape website. (C) PPI network visualization in String website showing the proteins that related to DEPDC1B and Rac1. (D) The mass spectrum of a representative peptide fragment of Rac1. (E and F) Western blot analysis determined that DEPDC1B is correlated with Rac1 after performing the pull-down assay with Flag-labeled DEPDC1B (E) and an anti-Rac1 (F) immunoprecipitation antibody. Anti-IgG was used as the negative control protein in the pull-down assay. (G and H) Representative image of the Western blotting analysis of active Rac1, total Rac1, phosphorylated PAK1, total PAK1 protein levels after DEPDC1B-knockdown (G) or -overexpression (H) in DU145 and PC3 cells - figure provided by CiteAb. Source: PMID33135357



Please check the [product details page](#) for more images. Overall 5 images are available for ABIN6145183.