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Datasheet for ABIN2855705  
**anti-PAK1 antibody (Center)**

6 Images

1 Publication

### Overview

|                      |  |
|----------------------|--|
| Quantity:            | 100 µL   |
| Target:              | PAK1   |
| Binding Specificity: | Center   |
| Reactivity:          | Human, Rat, Mouse  |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This PAK1 antibody is un-conjugated  |
| Application:         | Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC) |

### Product Details

|                             |  |
|-----------------------------|--|
| Immunogen:                  | Recombinant protein encompassing a sequence within the center region of human PAK1. The exact sequence is proprietary. |
| Isotype:                    | IgG  |
| Cross-Reactivity:           | Cow (Bovine)   |
| Cross-Reactivity (Details): | Bovine (100 %)   |
| Characteristics:            | Rabbit Polyclonal antibody to PAK1 (p21 protein (Cdc42/Rac)-activated kinase 1)<br>PAK1 antibody                       |
| Purification:               | Purified by antigen-affinity chromatography.   |

## Target Details

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|                   |  |
|-------------------|--|
| Target:           | PAK1   |
| Alternative Name: | PAK1 ( <a href="#">PAK1 Products</a> )   |
| Background:       | <p>PAK proteins are critical effectors that link RhoGTPases to cytoskeleton reorganization and nuclear signaling. PAK proteins, a family of serine/threonine p21-activating kinases, include PAK1, PAK2, PAK3 and PAK4. These proteins serve as targets for the small GTP binding proteins Cdc42 and Rac and have been implicated in a wide range of biological activities. PAK1 regulates cell motility and morphology. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.</p> <p>Cellular Localization: Cytoplasm , Cell junction , focal adhesion</p> |
| Molecular Weight: | 61 kDa   |
| Gene ID:          | 5058   |
| 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

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|                    |  |
|--------------------|--|
| Application Notes: | <p>Suggested dilution Reference ICC/IF 1:100-1:1000* IHC (Formalin-fixed paraffin-embedded sections) 1:100-1:1000* Western blot 1:500-1:10000* Not tested in other applications. *Optimal dilutions/concentrations should be determined by the researcher.Suggested dilutionReferenceICC/IF1:100-1:1000* IHC (Formalin-fixed paraffin-embedded sections)1:100-1:1000* Western blot1:500-1:10000*</p> |
| Comment:           | Positive Control: A431 , HeLa , BCL-1 , PC-12 , SH-SY5Y  |
| Restrictions:      | For Research Use only  |

## Handling

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|                |  |
|----------------|--|
| Format:        | Liquid   |
| Concentration: | 0.48 mg/mL   |
| Buffer:        | 0.1M Tris, 0.1M Glycine, 10 % Glycerol ( pH 7). 0.01 % Thimerosal was added as a preservative. |

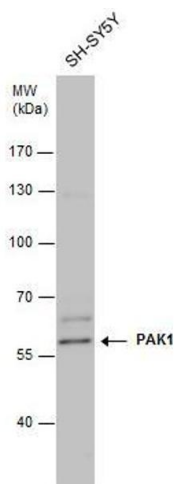
## Handling

|                    |  |
|--------------------|--|
| Preservative:      | Thimerosal (Merthiolate)   |
| Precaution of Use: | This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | -20 °C   |
| Storage Comment:   | Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.                             |

## Publications

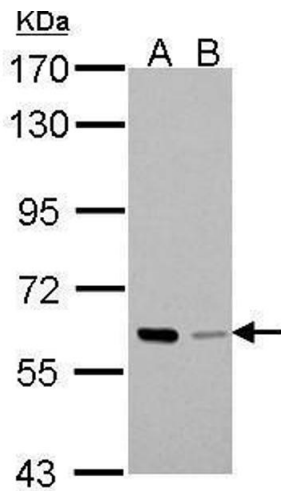
- Product cited in: Glaeser, Urban, Fenech, Voloshanenko, Kranz, Lari, Christianson, Boutros: "ERAD-dependent control of the Wnt secretory factor Evi." in: **The EMBO journal**, Vol. 37, Issue 4, (2018) ([PubMed](#)).
- Jain, Noordam, Hoshi, Vallania, Conrad: "Validating single-cell genomics for the study of renal development." in: **Kidney international**, Vol. 86, Issue 5, pp. 1049-55, (2015) ([PubMed](#)).

## Images



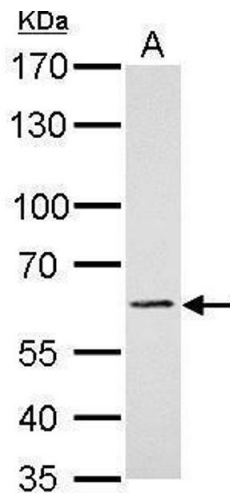
### Western Blotting

**Image 1.** WB Image PAK1 antibody detects PAK1 protein by western blot analysis. Whole cell extracts (30 µg) was separated by 7.5% SDS-PAGE, and the membrane was blotted with PAK1 antibody, diluted at 1:1000.



#### Western Blotting

**Image 2.** WB Image Sample (30 ug of whole cell lysate) A: A431 B: HeLa 7.5% SDS PAGE antibody diluted at 1:5000



#### Western Blotting

**Image 3.** WB Image PAK1 antibody detects PAK1 protein by Western blot analysis. A. 30 µg BCL-1 whole cell lysate/extract 7.5 % SDS-PAGE PAK1 antibody , dilution: 1:1000

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN2855705.