# Data Sheet (Cat.No.TMAB-11101)

TargetMol

## Anti-Phospho-PAK1 (Ser204) Polyclonal Antibody 2

### Product Details

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| Ig Type: | IgG |
| Reactivity: | Human,Mouse,Rat(predicted:Pig,Sheep,Cow,Dog,Rabbit,Horse) |
| Molecular Weight: | Theoretical: 61 kDa. Actual: 75 kDa. |
| Purification: | Protein A purified |

### Applications

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| Verified Activity: | Sample:<br>Lane 1: SH-SY5Y (Human) Cell Lysate at 30 µg<br>Lane 2: NIH/3T3 (Mouse) Cell Lysate at 30 µg<br>Lane 3: Pancreas (Rat) Lysate at 40 µg<br>Lane 4: Pancreas (Mouse) Lysate at 40 µg<br>Primary: Anti-phospho-PAK1 (Ser204) (TMAB-11101) at 1/1000 dilution<br>Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution<br>Predicted band size: 75 kD<br>Observed band size: 75 kD |
| Application: | WB |
| Recommended | WB: 1:500-2000 |

### Properties

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| Stability & Storage: | Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. |
| Shipping: | Shipping with blue ice. |

### Antigen Details

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| Immunogen: | KLH conjugated synthesised phosphopeptide: human PAK1 around the phosphorylation site of Ser204 |
| Antigen Species: | Human |
| Gene ID: | 5058 |
| Uniprot ID: | Q13153 |

### Research Background

The p21 activated kinases (PAK) are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. The PAK proteins are a family of serine/threonine kinases that serve as targets for the small GTP binding proteins, CDC42 and RAC1, and have been implicated in a wide range of biological activities. The protein encoded by this gene is activated by proteolytic cleavage during caspase-mediated apoptosis, and may play a role in regulating the apoptotic events in the dying cell.
P21-activated kinase (PAK) is actually a family of serine/threonine protein kinases, members of which are activated by small molecular weight GTPases. The three most common isoforms are PAK 1, PAK 2, and PAK 3 (also known as alpha PAK, gamma PAK, and beta PAK, respectively). These kinases contain numerous regulatory elements that trigger diverse signaling processes such as those initiated by activated GTPases, interaction with Src homology 3 (SH3) domains, and caspase mediated proteolytic cleavage. Autophosphorylation of serine 141 (serine 144 for PAK 1

and serine 139 PAK 3), catalyzed by Cdc42, is required for activation of PAK.



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