

bs-4318R**[Primary Antibody]****phospho-PAK1 (Ser204) Rabbit pAb****BioSS**
ANTIBODIES

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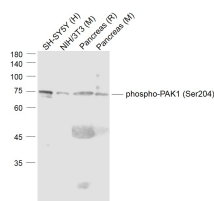
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DATASHEET

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Polyclonal		Reactivity: Human, Mouse, Rat
GeneID: 5058	SWISS: Q13153	
Target: PAK1 (Ser204)		
Immunogen: KLH conjugated synthesised phosphopeptide derived from human PAK1 around the phosphorylation site of Ser204: TR(p-S)VI.		Predicted MW.: 61 kDa
Purification: affinity purified by Protein A		Subcellular Location: Cell membrane ,Cytoplasm
Concentration: 1mg/ml		
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
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.		

VALIDATION IMAGES

Sample: Lane 1: SH-SY5Y (Human) Cell Lysate at 30 ug
Lane 2: NIH/3T3(Mouse) Cell Lysate at 30 ug
Lane 3: Pancreas (Rat) Lysate at 40 ug
Lane 4: Pancreas (Mouse) Lysate at 40 ug
Primary: Anti-phospho-PAK1 (Ser204) (bs-4318R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 75 kD
Observed band size: 75 kD

SELECTED CITATIONS

- [IF=2.5]** Chenlei Li. et al. Plexin D1 Negatively Regulates Macrophage-derived Foam Cell Migration via the Focal Adhesion Kinase/Paxillin Pathway. BIOCHEM BIOPH RES CO. 2024 Jun;;150236 WB ;Mouse. 38897039

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.