

Product datasheet for **TA384923S**

PAK1 Rabbit Monoclonal Antibody [Clone ID: R04-2A4]

Product data:

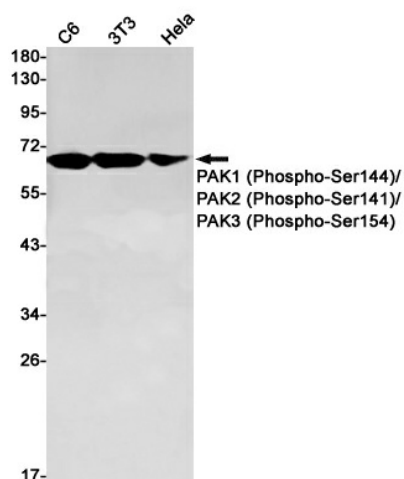
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|-------------------------|--|
| Product Type: | Primary Antibodies |
| Clone Name: | R04-2A4 |
| Applications: | IF, IHC, IP, WB |
| Recommended Dilution: | WB: 1/2000-1/10000 IHC: 1/20-1/100 ICC/IF: 1/50 IP: 1/20 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Isotype: | IgG |
| Clonality: | Monoclonal |
| Immunogen: | A synthetic phosphopeptide corresponding to residues surrounding Ser144 of human PAK1 (Phosphorylated) |
| Formulation: | 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA |
| Concentration: | lot specific |
| Purification: | Affinity Purified |
| Conjugation: | Unconjugated |
| Storage: | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| Stability: | 1 year |
| Predicted Protein Size: | Calculated MW: 61 kDa; Observed MW: 61 kDa |
| Database Link: | O75914 |



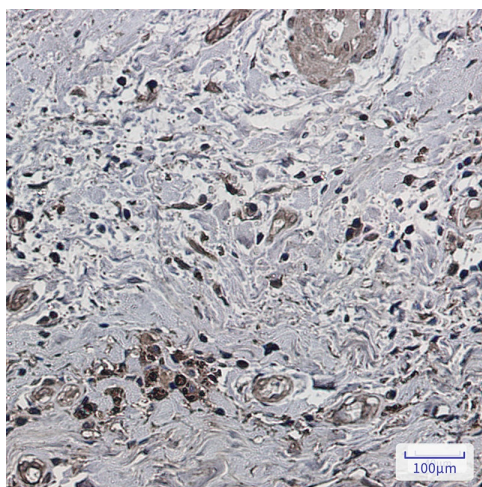
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Background:

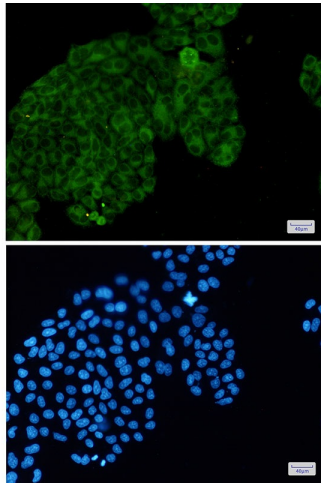
Swiss-Prot Acc.O75914.Serine/threonine protein kinase that plays a role in a variety of different signaling pathways including cytoskeleton regulation, cell migration, or cell cycle regulation. Plays a role in dendrite spine morphogenesis as well as synapse formation and plasticity. Acts as downstream effector of the small GTPases CDC42 and RAC1. Activation by the binding of active CDC42 and RAC1 results in a conformational change and a subsequent autophosphorylation on several serine and/or threonine residues. Phosphorylates MAPK4 and MAPK6 and activates the downstream target MAPKAPK5, a regulator of F-actin polymerization and cell migration. Additionally, phosphorylates TNNI3/troponin I to modulate calcium sensitivity and relaxation kinetics of thin myofilaments. May also be involved in early neuronal development.

Product images:

Western blot analysis of PAK1 (Phospho-Ser144)/PAK2 (Phospho-Ser141)/PAK3 (Phospho-Ser154) in C6, 3T3, HeLa lysates using Phospho-PAK1/2/3 (Ser144/Ser141/Ser154) antibody.



Immunohistochemistry analysis of paraffin-embedded Human breast cancer using Phospho-PAK1(Ser144)/2(Ser141)/3 (Ser154) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Immunocytochemistry analysis of PAK1 (Phospho-Ser144)/PAK2 (Phospho-Ser141)/PAK3 (Phospho-Ser154)(green) in HeLa using PAK1 (Phospho-Ser144)/PAK2 (Phospho-Ser141)/PAK3 (Phospho-Ser154) antibody, and DAPI(blue)