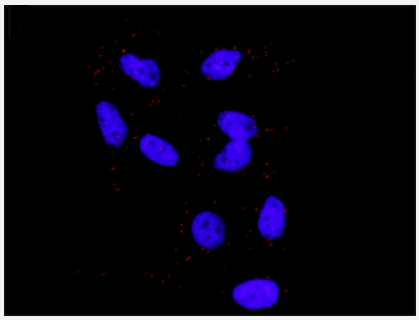
# PAK1(phospho T212) & PAK1 Protein Phosphorylation Antibody Pair

Catalog # DP0058 Size 1 Set

## Applications



Representative image of Proximity Ligation Assay of protein phosphorylation. HeLa cells were stained with dual recognition antibody pair set, rabbit polyclonal antibody 1:1200 and mouse monoclonal antibody 1:50. Each red dot represents one single phosphorylated protein. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

## Specification

| | |
|---|---|
| **Product Description** | This protein phosphorylation antibody pair set comes with two antibodies, one against the PAK1 protein, and the other against the specific T212 phosphorylated site of PAK1 for use in *in situ* Proximity Ligation Assay. See Publication Reference below. |
| **Reactivity** | Human |
| **Quality Control Testing** | Dual recognition immunofluorescence result.<br>Representative image of Proximity Ligation Assay of protein phosphorylation. HeLa cells were stained with dual recognition antibody pair set, rabbit polyclonal antibody 1:1200 and mouse monoclonal antibody 1:50. Each red dot represents one single phosphorylated protein. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University. |
| **Supplied Products** | Antibody pair set content:<br>1. Phospho-PAK1 T212 rabbit polyclonal antibody (20 ul)<br>With 0.09% sodium azide.<br>2. PAK1 mouse monoclonal antibody (40 ug)<br>In 1x PBS, pH 7.2<br>*Reagents are sufficient for at least 30-50 assays using recommended protocols. |
| **Storage Instruction** | Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze thaw cycle. Reagents should be returned to -20°C storage immediately after use. |

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## Applications

- *In situ* Proximity Ligation Assay (Cell)

## Gene Info — PAK1

| | |
|---|---|
| **Entrez GeneID** | 5058 |
| **Gene Name** | PAK1 |
| **Gene Alias** | MGC130000, MGC130001, PAKalpha |
| **Gene Description** | p21 protein (Cdc42/Rac)-activated kinase 1 |
| **Omim ID** | 602590 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | 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. Alternativelt spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq |
| **Other Designations** | STE20 homolog, yeast\|p21-activated kinase 1\|p21/Cdc42/Rac1-activated kinase 1 (STE20 homolog, yeast)\|p21/Cdc42/Rac1-activated kinase 1 (yeast Ste20-related) |

## Pathway

- Axon guidance
- Chemokine signaling pathway
- Epithelial cell signaling in Helicobacter pylori infection
- ErbB signaling pathway
- Fc gamma R-mediated phagocytosis
- Focal adhesion
- MAPK signaling pathway
- Natural killer cell mediated cytotoxicity

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- Regulation of actin cytoskeleton
- Renal cell carcinoma
- T cell receptor signaling pathway

## Disease

- Carcinoma
- Esophageal Neoplasms
- HIV Infections
- Tobacco Use Disorder

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