

Product datasheet for **AP02438PU-S**

PAK1 pThr212 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western Blot: 1/500-1/1000. Immunofluorescence: 1/100-1/200. Immunohistochemistry on Paraffin Sections: 1/50-1/100.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized phosphopeptide derived from Human PAK1 around the phosphorylation site of threonine 212 (P-V-Tp-P-T).
Specificity:	The antibody detects endogenous levels of PAK1 only when phosphorylated at Threonine 212.
Formulation:	PBS (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	p21 (RAC1) activated kinase 1
Database Link:	Entrez Gene 5058 Human Q13153



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Background:

The serine/threonine kinase Pak1 is an effector of small Rho GTPases, Rac1 and Cdc42. Pak1 complex specifically with Rac1 and Cdc42 in their active GTP bound state, inhibiting their intrinsic GTPase activity leading to their autophosphorylation. It plays an important role in the regulation of cell morphogenesis, motility, mitosis, and angiogenesis and has been implicated in the progression of many cancers.

Synonyms:

PAK 1, PAK-1, Alpha-PAK, PAK alpha, p21-activated kinase 1, p65-PAK

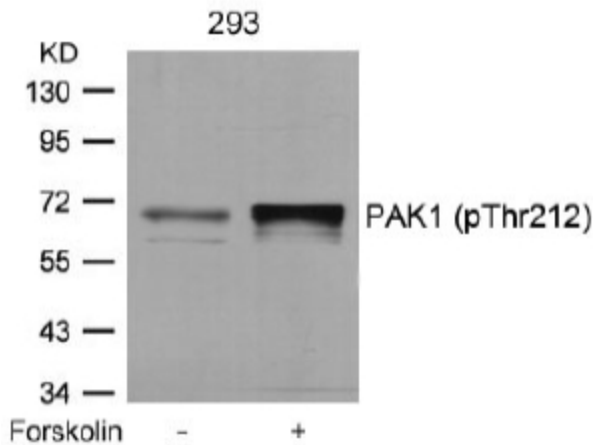
Product images:


Figure 3. Western blot analysis of extracts from 293 cells untreated or treated with forskolin using PAK1 antibody

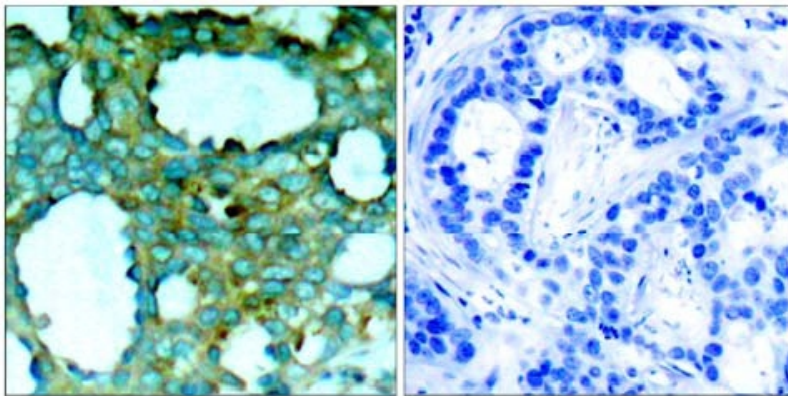


Figure 1. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using PAK1 (phospho-Thr212) antibody.

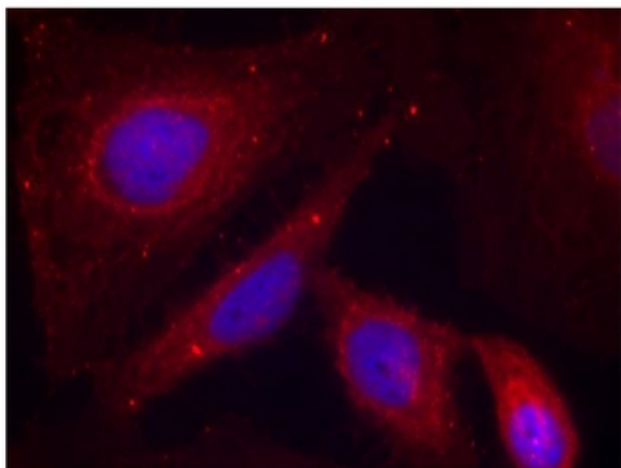


Figure 2. Immunofluorescence staining of methanol-fixed HeLa cells using PAK1 (phospho-Thr212) antibody (Red).