

Phospho-Thr84 PAK1 Antibody
Affinity purified rabbit polyclonal antibody
Catalog # AN1253

Specification

Phospho-Thr84 PAK1 Antibody - Product Information

Application	WB
Primary Accession	O13153
Reactivity	Human, Mouse
Predicted	Bovine, Chicken, Monkey, Rat, Zebrafish
Host	Rabbit
Clonality	polyclonal
Calculated MW	68 KDa

Phospho-Thr84 PAK1 Antibody - Additional Information

Gene ID	5058
Gene Name	PAK1

Other Names

Serine/threonine-protein kinase PAK 1, Alpha-PAK, p21-activated kinase 1, PAK-1, p65-PAK, PAK1

Target/Specificity

Synthetic phospho-peptide corresponding to amino acid residues surrounding Thr84 conjugated to KLH.

Dilution

WB~~ 1:1000

Format

Prepared from rabbit serum by affinity purification via sequential chromatography on phospho- and dephospho-peptide affinity columns.

Antibody Specificity

Specific for the ~68k PAK1 phosphorylated at Thr84.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Phospho-Thr84 PAK1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

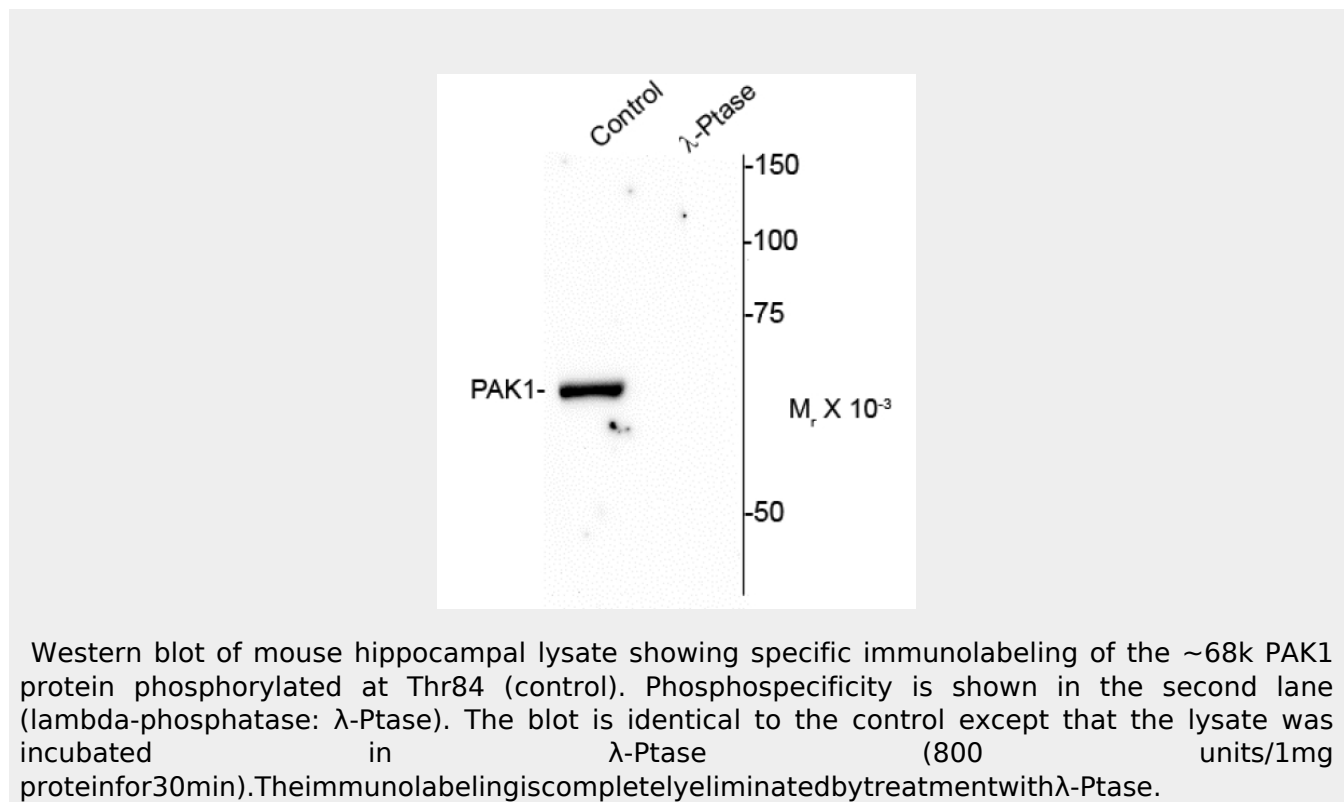
Blue Ice

Phospho-Thr84 PAK1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Phospho-Thr84 PAK1 Antibody - Images



Phospho-Thr84 PAK1 Antibody - Background

PAKs, p21 activated kinases, are a family of serine/threonine protein kinases comprised of six isoforms, PAK1-6, and they play important roles in cytoskeleton dynamics, cell survival and proliferation (Ye et al, 2012). Each of these isoforms contains a C-terminal catalytic domain and an N-terminal regulatory domain with a small G protein binding motif (Chen et al, 2004). OSR1, oxidative stress response 1, is activated only by osmotic stresses, like sorbitol or NaCl (Chen et al, 2004). It has been predicted that OSR1 phosphorylates PAK1 in the regulatory domain at thr84 and inhibits activation of JNK and MAPK pathway. (Chen et al, 2004). It has also been suggested that OSR1 may have a regulating function with actin cytoskeleton because it can phosphorylate PAK1 at thr84 and bind to gelsolin (Chen et al, 2004).

Phospho-Thr84 PAK1 Antibody - References

- Chen W, Yazicioglu M, Cobb MH (2004) Characterization of OSR1, a member of the mammalian Ste20p/germinal center kinase family. *J of Biol Chem* 279 (12):11129-36.
Ye D, Field J (2012) PAK signaling in cancer. *Cell Logist* 2(2):105-116.