

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

**Specification**

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**Phospho-Thr84 PAK1 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O13153</a>
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
<b>Other Names</b>	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**

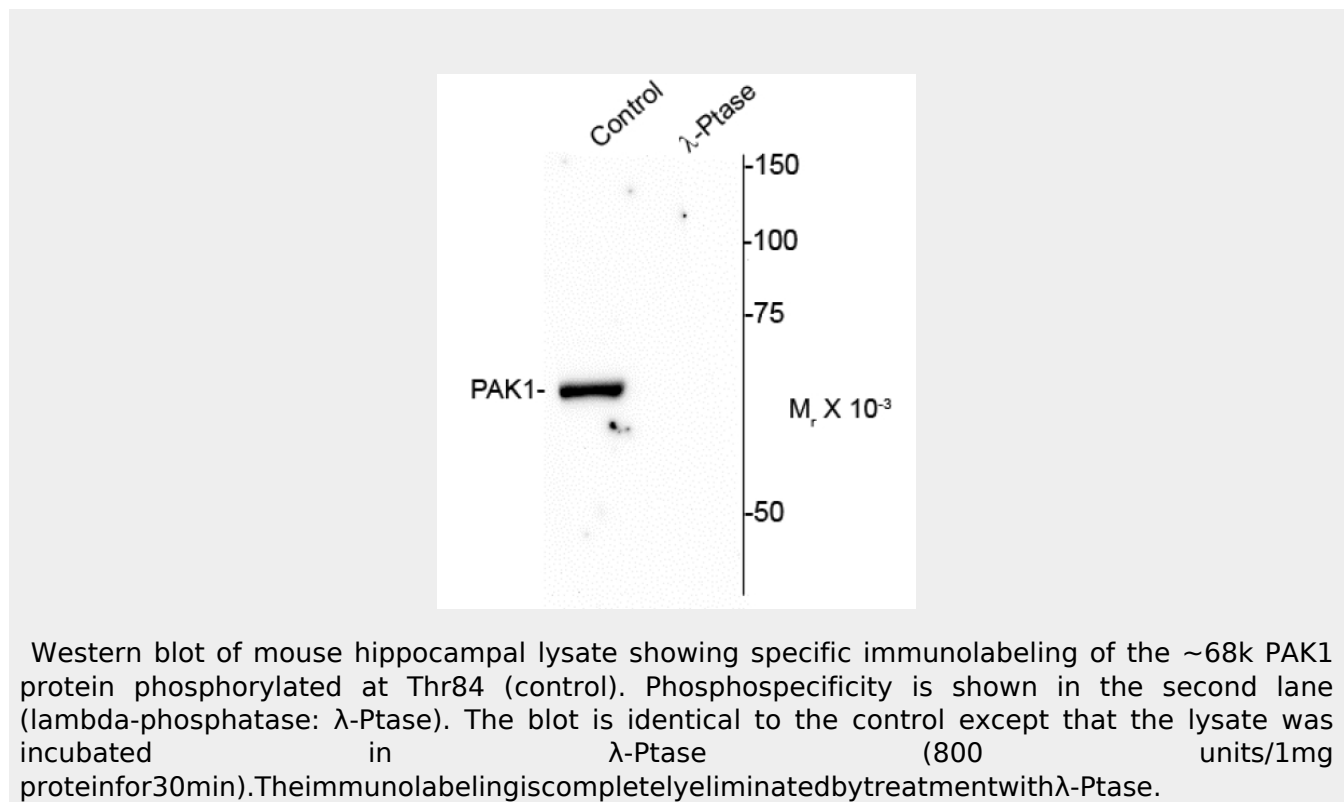
Blue Ice

**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.