

Anti-Phospho-PAK1 (Thr84) Antibody

Catalog Number: P00454-2

About PAK1

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 Thr-84 and bind to gelsolin (Chen et al, 2004).

Overview

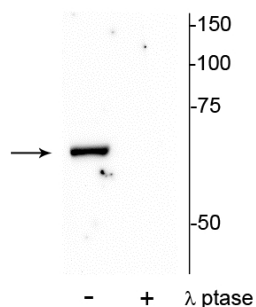
Product Name	Anti-Phospho-PAK1 (Thr84) Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Phospho-PAK1 (Thr84) Antibody (Catalog # P00454-2). Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Polyclonal
Formulation	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Storage Instructions	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C. After date of receipt, stable for at least 1 year at -20°C.
Host	Rabbit
Uniprot ID	Q13153

Technical Details

Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Thr84 of human PAK1, conjugated to keyhole limpet hemocyanin (KLH). Immunogen species is Human.
Predicted Reactive Species	Bovine, Canine, Chicken, Guinea Pig, Primate, Sheep, Zebrafish
Isotype	IgG
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.

Purification	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>WB: 1:1000</p>

Anti-Phospho-PAK1 (Thr84) Antibody (P00454-2) Images



Western blot of mouse hippocampal lysate showing specific immunolabeling of the ~68 kDa PAK1 protein phosphorylated at Thr⁸⁴ in the first lane (-). Phosphospecificity is shown in the second lane (+) where the immunolabeling is completely eliminated by lysate treatment with lambda phosphatase (gamma-Ptase , 800 units/1mg protein for 30 minutes).

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