

Pyk2(Phospho-Tyr402) Antibody

Catalog No: #11216



Package Size: #11216-1 50ul #11216-2 100ul #11216-4 25ul

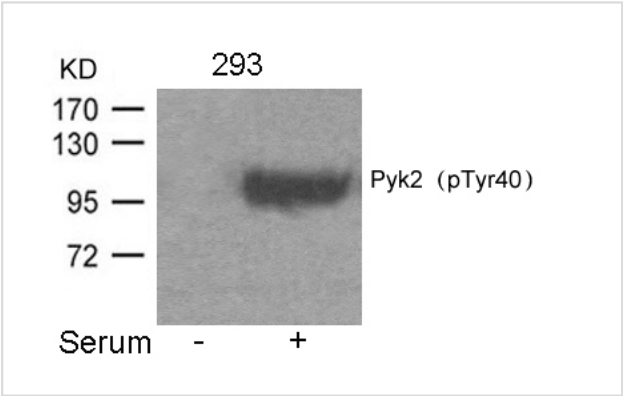
Overview

Product Name	Pyk2(Phospho-Tyr402) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Immunogen Type	Peptide-KLH
Target Name	Pyk2
Modification	Phospho-Tyr402
Alternative Names	FADK 2; FAK2; Focal adhesion kinase 2; PTK2B; Proline-rich tyrosine kinase 2 RAFTK

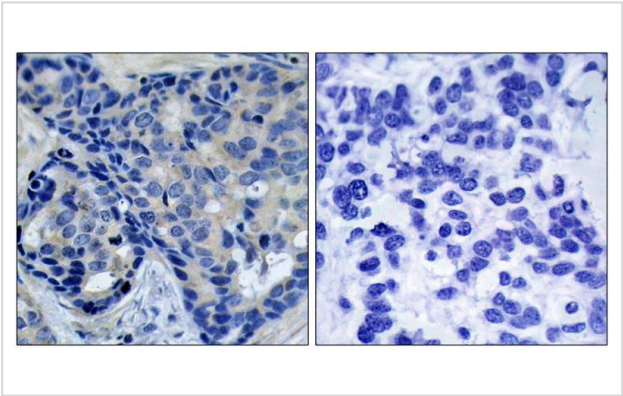
Application Details

Predicted MW: 116kd
Western blotting: 1:500~1:1000
Immunohistochemistry: 1:50~1:100
Immunofluorescence: 1:100~1:200

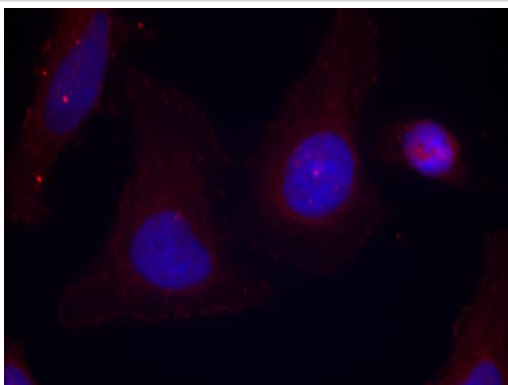
Images



Western blot analysis of extracts from 293 cells untreated or treated with Serum using Pyk2(Phospho-Tyr402) Antibody #11216.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Pyk2(Phospho-Tyr402) Antibody #11216(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed HeLa cells using Pyk2(Phospho-Tyr402) Antibody #11216.

Descriptions

Immunogen	Peptide sequence around phosphorylation site of tyrosine 402 (D-I-Y(p)-A-E) derived from Human Pyk2.
Specificity	The antibody detects endogenous level of Pyk2 only when phosphorylated at tyrosine 402.
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.
Accession NO.	Swiss-Prot: Q14289NCBI Protein: NP_004094.3

Related Information

Involved in calcium induced regulation of ion channel and activation of the map kinase signaling pathway. May represent an important signaling intermediate between neuropeptide activated receptors or neurotransmitters that increase calcium flux and the downstream signals that regulate neuronal activity. Interacts with the SH2 domain of Grb2. May phosphorylate the voltage-gated potassium channel protein Kv1.2. Its activation is highly correlated with the stimulation of c-Jun N-terminal kinase activity. Involved in osmotic stress-dependent SNCA 'Tyr-125' phosphorylation.

Gluck SL, et al. (2004) J Clin Invest; 114(12): 1696-1699

Benzing T, et al. (2001) Proc Natl Acad Sci U S A; 98(17): 9784-9789

Tian D, et al. (2002) Mol Cell Biol; 22(8): 2650-2662

Lu Z, et al. (2001) Mol Cell Biol; 21(12): 4016-4031

Krishnan HH, et al. (2006) J Virol; 80(3): 1167-1180

Published Papers

Mineko Tomomura, Hiroya Hasegawa, Naoto Suda et al., Serum Calcium-decreasing Factor, Caldecrin, Inhibits Receptor Activator of NF- B Ligand (RANKL)-mediated Ca²⁺ Signaling and Actin Ring Formation in Mature Osteoclasts via Suppression of Src Signaling Pathway., THE JOURNAL OF BIOLOGICAL CHEMISTRY, 287(22):17963-17974.(2012)

[PMID:22461633](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.