

Datasheet for ABIN3043556
anti-FAK antibody (C-Term)



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Overview

Quantity:	100 µg
Target:	FAK (PTK2)
Binding Specificity:	AA 1024-1052, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FAK antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-FAK/PTK2 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human PTK2, identical to the related mouse and rat sequences.
Sequence:	AHALAVDAKN LLDVIDQARL KMLGQTRPH
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-FAK/PTK2 Antibody Picoband® (ABIN3043556). Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: FAK (PTK2)

Alternative Name: PTK2 ([PTK2 Products](#))

Background: Synonyms: Focal adhesion kinase 1,FADK 1,2.7.10.2,Focal adhesion kinase-related nonkinase,FRNK,Protein phosphatase 1 regulatory subunit 71,PPP1R71,Protein-tyrosine kinase 2,p125FAK,pp125FAK,PTK2,FAK, FAK1,

Tissue Specificity: Detected in B and T-lymphocytes. Isoform 1 and isoform 6 are detected in lung fibroblasts (at protein level). Ubiquitous. .

Background: PTK2 protein tyrosine kinase 2 (PTK2), also known as Focal Adhesion Kinase (FAK), is a protein that, in humans, is encoded by the PTK2 gene. This gene encodes a cytoplasmic protein tyrosine kinase which is found concentrated in the focal adhesions that form between cells growing in the presence of extracellular matrix constituents. The encoded protein is a member of the FAK subfamily of protein tyrosine kinases but lacks significant sequence similarity to kinases from other subfamilies. Activation of this gene may be an important early step in cell growth and intracellular signal transduction pathways triggered in response to certain neural peptides or to cell interactions with the extracellular matrix. Several transcript variants encoding different isoforms have been found for this gene, but the full-length natures of only three of them have been determined.

Molecular Weight: 125 kDa

Gene ID: 5747

UniProt: [Q05397](#)

Pathways: [Response to Growth Hormone Stimulus](#), [CXCR4-mediated Signaling Events](#), [Smooth Muscle Cell Migration](#), [Signaling of Hepatocyte Growth Factor Receptor](#), [VEGF Signaling](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat

1. Beggs, H. E., Schahin-Reed, D., Zang, K., Goebbels, S., Nave, K.-A., Gorski, J., Jones, K. R., Sretavan, D., Reichardt, L. F.FAK deficiency in cells contributing to the basal lamina results in cortical abnormalities resembling congenital muscular dystrophies.Neuron 40: 501-514, 2003.
2. Li, W., Lee, J., Vikis, H. G., Lee, S.-H., Liu, G., Aurandt, J., Shen, T.-L., Fearon, E. R., Guan, J.-L., Han, M., Rao, Y., Hong, K., Guan, K.-L.Activation of FAK and Src are receptor-proximal events

Application Details

required for netrin signaling. *Nature Neurosci.* 7: 1213-1221, 2004.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

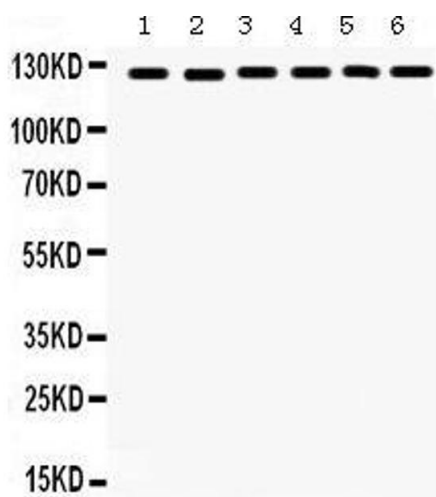
Storage: 4 °C, -20 °C

Storage Comment: Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Publications

Product cited in: Su, Zhang, Mao, Liu, Zheng, Zhang, Su: "Research of shRNAmir inhibitory effects towards focal adhesion kinase expression in the treatment of gastric cancer." in: **Oncology letters**, Vol. 9, Issue 2, pp. 595-603, (2015) ([PubMed](#)).

Cao, Xing, Yang, Mei: "Correlation between matrix metalloproteinase expression and activation of the focal adhesion kinase signaling pathway in herpes stromal keratitis." in: **Experimental and therapeutic medicine**, Vol. 7, Issue 1, pp. 280-286, (2013) ([PubMed](#)).



Western Blotting

Image 1.