

# Datasheet for ABIN7152982 anti-FAK antibody (AA 363-464)

## 2 Images



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#### Overview

Quantity:	100 μg
Target:	FAK (PTK2)
Binding Specificity:	AA 363-464
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FAK antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)
Product Details	
Immunogen:	Recombinant Human Focal adhesion kinase 1 protein (363-464AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified
Target Details	
Target:	FAK (PTK2)
Alternative Name:	PTK2 (PTK2 Products)
Background:	Background: Non-receptor protein-tyrosine kinase that plays an essential role in regulating cell migration, adhesion, spreading, reorganization of the actin cytoskeleton, formation and

disassembly of focal adhesions and cell protrusions, cell cycle progression, cell proliferation and apoptosis. Required for early embryonic development and placenta development. Required for embryonic angiogenesis, normal cardiomyocyte migration and proliferation, and normal heart development. Regulates axon growth and neuronal cell migration, axon branching and synapse formation, required for normal development of the nervous system. Plays a role in osteogenesis and differentiation of osteoblasts. Functions in integrin signal transduction, but also in signaling downstream of numerous growth factor receptors, G-protein coupled receptors (GPCR), EPHA2, netrin receptors and LDL receptors. Forms multisubunit signaling complexes with SRC and SRC family members upon activation, this leads to the phosphorylation of additional tyrosine residues, creating binding sites for scaffold proteins, effectors and substrates. Regulates numerous signaling pathways. Promotes activation of phosphatidylinositol 3-kinase and the AKT1 signaling cascade. Promotes activation of MAPK1/ERK2, MAPK3/ERK1 and the MAP kinase signaling cascade. Promotes localized and transient activation of guanine nucleotide exchange factors (GEFs) and GTPase-activating proteins (GAPs), and thereby modulates the activity of Rho family GTPases. Signaling via CAS family members mediates activation of RAC1. Recruits the ubiquitin ligase MDM2 to P53/TP53 in the nucleus, and thereby regulates P53/TP53 activity, P53/TP53 ubiquitination and proteasomal degradation. Phosphorylates SRC, this increases SRC kinase activity. Phosphorylates ACTN1, ARHGEF7, GRB7, RET and WASL. Promotes phosphorylation of PXN and STAT1, most likely PXN and STAT1 are phosphorylated by a SRC family kinase that is recruited to autophosphorylated PTK2/FAK1, rather than by PTK2/FAK1 itself. Promotes phosphorylation of BCAR1, GIT2 and SHC1, this requires both SRC and PTK2/FAK1. Promotes phosphorylation of BMX and PIK3R1. Isoform 6 (FRNK) does not contain a kinase domain and inhibits PTK2/FAK1 phosphorylation and signaling. Its enhanced expression can attenuate the nuclear accumulation of LPXN and limit its ability to enhance serum response factor (SRF)dependent gene transcription.

Aliases: FADK 1 antibody, FADK antibody, FAK related non kinase polypeptide antibody, FAK1 antibody, FAK1\_HUMAN antibody, Focal adhesion kinase 1 antibody, Focal adhesion Kinase antibody, Focal adhesion kinase isoform FAK Del33 antibody, Focal adhesion kinase related nonkinase antibody, FRNK antibody, p125FAK antibody, pp125FAK antibody, PPP1R71 antibody, Protein phosphatase 1 regulatory subunit 71 antibody, Protein tyrosine kinase 2 antibody, Protein-tyrosine kinase 2 antibody

UniProt:

Q05397

Pathways:

Response to Growth Hormone Stimulus, CXCR4-mediated Signaling Events, Smooth Muscle

## Cell Migration, Signaling of Hepatocyte Growth Factor Receptor, VEGF Signaling

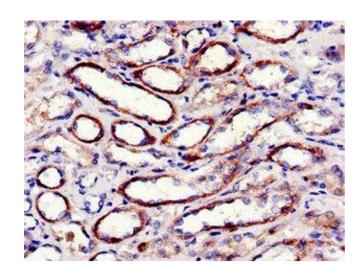
## **Application Details**

Application Notes:	Recommended dilution: IHC:1:20-1:200, IF:1:50-1:200,
Restrictions:	For Research Use only

## Handling

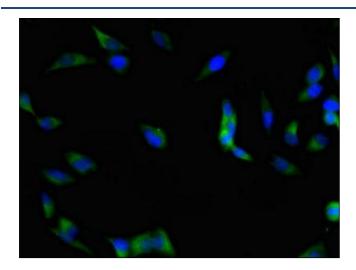
Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

## **Images**



## **Immunohistochemistry**

**Image 1.** Immunohistochemistry of paraffin-embedded human kidney tissue using ABIN7152982 at dilution of 1:100



## Immunofluorescence

**Image 2.** Immunofluorescent analysis of Hela cells using ABIN7152982 at dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)