

Datasheet for ABIN7140973

anti-FAK antibody (AA 376-683) (Biotin)[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	FAK (PTK2)
Binding Specificity:	AA 376-683
Reactivity:	Chicken
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FAK antibody is conjugated to Biotin
Application:	ELISA

Product Details

Immunogen:	Recombinant Chicken Focal adhesion kinase 1 protein (376-683AA)
Isotype:	IgG
Cross-Reactivity:	Chicken
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

Target Details

disassembly of focal adhesions and cell protrusions, cell cycle progression, cell proliferation and apoptosis. Required for early embryonic development, 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), ephrin receptors, 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. Regulates P53/TP53 activity and stability. Phosphorylates SRC, this increases SRC kinase activity. Isoform 2 (FRNK) does not contain a kinase domain and inhibits PTK2/FAK1 phosphorylation and signaling.

Aliases: PTK2 antibody, FAK antibody, FAK1 antibody, Focal adhesion kinase 1 antibody, FADK 1 antibody, EC 2.7.10.2 antibody, Focal adhesion kinase-related nonkinase antibody, FRNK antibody, p41/p43FRNK antibody, Protein-tyrosine kinase 2 antibody, p125FAK antibody, pp125FAK antibody

UniProt:	Q00944
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:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300

Handling

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.