



# Anti-PTK2 polyclonal antibody (DPAB2674RH)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Rabbit polyclonal to human FAK1.
<b>Antigen Description</b>	<p>Focal adhesion kinase subfamily consists of the non-receptor proline-rich protein tyrosine kinases (PTKs). Two members of the family are focal adhesion kinase (FAK) and proline-rich tyrosine kinase 2 (PYK2). These two kinases have molecular mass between 110-125 kDa and are closely related in their structure. The presence of two proline-rich motifs within the C-terminal domains is conserved. FAK is a nonreceptor and nonmembrane associated PTK which does not contain Src homology 2 (SH2) or SH3 protein interaction domains. The centrally located kinase domain of FAK is flanked by large N- and C-terminal noncatalytic domains. FAK links integrin receptors to intracellular signaling pathways that are important for cell growth, survival, and migration. Integrin receptor engagement with ligands such as fibronectin can stimulate FAK autophosphorylation which enables FAK to function within a network of integrin-stimulated signaling pathways leading to the activation of targets such as the ERK and JNK/mitogen-activated protein kinase pathways. Recent study reveals that FAK is essential for angiogenesis in the embryo, functions in heart development and modulates the response of cardiomyocytes to pressure overload in adult mice.</p>
<b>Immunogen</b>	Recombinant human protein purified from E.coli.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, IP
<b>Cellular Localization</b>	Cell junction Cell membrane
<b>Positive Control</b>	A431 cells

<b>Format</b>	HEPES with 0.15M NaCl, 0.01% BSA, 0.03% sodium azide, and 50% glycerol.
<b>Size</b>	100 µl
<b>Preservative</b>	0.03% Sodium Azide
<b>Storage</b>	Store for 1 year at -20 °C from date of shipment.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">PTK2 PTK2 protein tyrosine kinase 2 [ Homo sapiens ]</a>
<b>Synonyms</b>	PTK2; PTK2 protein tyrosine kinase 2; FAK; FADK; FAK1; FADK 1; FRNK; PPP1R71; pp125FAK; Protein-tyrosine kinase 2; focal adhesion kinase 1; FADK 1; FAK-related non-kinase polypeptide; protein phosphatase 1, regulatory subunit 71; P_001186578.1; EC 2.7.10.2; EC 2.7.10; NP_005598.3; EC 2.7.10.2; NP_722560.1; OTTHUMP00000226325; OTTHUMP00000226326; OTTHUMP00000226334; OTTHUMP00000226350; OTTHUMP00000226586; OTTHUMP00000226318; OTTHUMP00000226320
<b>Entrez Gene ID</b>	<a href="#">5747</a>
<b>Protein Refseq</b>	<a href="#">NP_722560</a>
<b>UniProt ID</b>	<a href="#">Q05397</a>
<b>Chromosome Location</b>	8q24.3
<b>Pathway</b>	Alpha6-Beta4 Integrin Signaling Pathway; Amoebiasis; Apoptosis; Apoptotic cleavage of cellular proteins; Apoptotic execution phase; Axon guidance; B Cell Receptor Signaling Pathway; Bacterial invasion of epithelial cells; CXCR4-mediated signaling events; Cell-Cell communication; Chemokine signaling pathway; DCC mediated attractive signaling; Developmental Biology; ErbB signaling pathway; Focal Adhesion
<b>Function</b>	ATP binding; JUN kinase binding; SH2 domain binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protein binding; protein kinase activity; protein kinase binding; protein tyrosine kinase activity; signal transducer activity