

## Rabbit FAK Polyclonal Antibody | anti-FAK antibody

FAK (phospho Tyr861) Polyclonal Antibody

|                               |                       |                                                |                                     |
|-------------------------------|-----------------------|------------------------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA293889</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat, Monkey</b> | APPLICATIONS<br><b>Western Blot</b> |
|-------------------------------|-----------------------|------------------------------------------------|-------------------------------------|

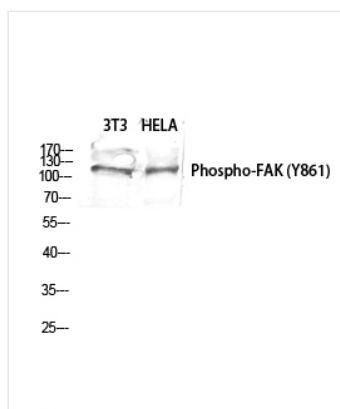
### PRODUCT SYNONYMS

FAK; Polyclonal Antibody; FAK (phospho Tyr861) Polyclonal Antibody; PTK2; FAK1; Focal adhesion kinase 1; FADK 1; Focal adhesion kinase-related nonkinase; FRNK; Protein phosphatase 1 regulatory subunit 71; PPP1R71; Protein-tyrosine kinase 2; p125FAK; pp125FAK; anti-FAK antibody

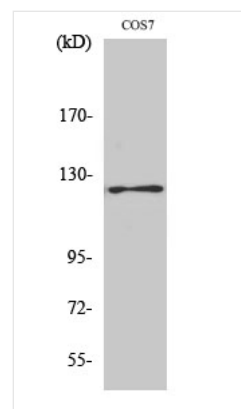
### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                       |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                                                |
| Reactivity                                    | Human, Mouse, Rat, Monkey                                                                                                                             |
| Clonality                                     | Polyclonal                                                                                                                                            |
| Applicable Applications for anti-FAK antibody | WB (Western Blot)                                                                                                                                     |
| Preparation and Storage                       | Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |

### IMAGES


**WB (Western Blot)**

Dilution: Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.


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## ADDITIONAL INFORMATION

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| <b>Related Product Information for anti-FAK antibody</b> | <p>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.</p> |
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## NCBI AND UNIPROT INFORMATION

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|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | <a href="#">313851044</a>                                                                                                                                                                                                               |
| <b>NCBI GeneID</b>                      | <a href="#">5747</a>                                                                                                                                                                                                                    |
| <b>NCBI Accession #</b>                 | <a href="#">NP_001186578.1</a>                                                                                                                                                                                                          |
| <b>NCBI GenBank Nucleotide #</b>        | <a href="#">NM_001199649.1</a>                                                                                                                                                                                                          |
| <b>UniProt Accession #</b>              | <a href="#">Q05397</a> ; <a href="#">Q14291</a> ; <a href="#">Q9UD85</a> ; <a href="#">B4E2N6</a> ; <a href="#">F5H4S4</a>                                                                                                              |
| <b>Molecular Weight</b>                 | 119,233 Da                                                                                                                                                                                                                              |
| <b>NCBI Official Full Name</b>          | focal adhesion kinase 1 isoform c                                                                                                                                                                                                       |
| <b>NCBI Official Synonym Full Names</b> | protein tyrosine kinase 2                                                                                                                                                                                                               |
| <b>NCBI Official Symbol</b>             | PTK2                                                                                                                                                                                                                                    |
| <b>NCBI Official Synonym Symbols</b>    | FAK; FADK; FAK1; FRNK; PPP1R71; p125FAK; pp125FAK                                                                                                                                                                                       |
| <b>NCBI Protein Information</b>         | focal adhesion kinase 1; FADK 1; PTK2 protein tyrosine kinase 2; FAK-related non-kinase polypeptide; focal adhesion kinase-related nonkinase; protein phosphatase 1 regulatory subunit 71; protein phosphatase 1, regulatory subunit 71 |
| <b>UniProt Protein Name</b>             | Focal adhesion kinase 1                                                                                                                                                                                                                 |
| <b>UniProt Gene Name</b>                | <b>PTK2</b>                                                                                                                                                                                                                             |
| <b>UniProt Synonym Gene Names</b>       | FAK; FAK1; FADK 1; FRNK; PPP1R71                                                                                                                                                                                                        |
| <b>UniProt Entry Name</b>               | FAK1_HUMAN                                                                                                                                                                                                                              |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.