

#3285 Store at -20C

FAK Antibody



Cell Signaling
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For Research Use Only. Not for Use in Diagnostic Procedures.

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source: | UniProt ID: | Entrez-Gene Id: |
|---------------|---------------|--------------|-----------|---------|-------------|-----------------|
| WB, IP, IHC-P | H M R Mk B Pg | Endogenous | 125 | Rabbit | #Q05397 | 5747 |

Product Usage Information

Application

Western Blotting
Immunoprecipitation
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:50
1:800

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

FAK Antibody detects endogenous levels of FAK protein. This antibody may cross-react with other activated receptor tyrosine kinases.

Species predicted to react based on 100% sequence homology:

Chicken

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding amino acid 710 of human FAK. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Focal adhesion kinase (FAK) is a widely expressed cytoplasmic protein tyrosine kinase involved in integrin-mediated signal transduction. It plays an important role in the control of several biological processes, including cell spreading, migration, and survival (1). Activation of FAK by integrin clustering leads to autophosphorylation at Tyr397, which is a binding site for the Src family kinases PI3K and PLCγ (2-5). Recruitment of Src family kinases results in the phosphorylation of Tyr407, Tyr576, and Tyr577 in the catalytic domain, and Tyr871 and Tyr925 in the carboxy-terminal region of FAK (6,7).

Background References

1. Parsons, J.T. et al. (2000) *Oncogene* 19, 5606-13.
2. Schaller, M.D. et al. (1994) *Mol Cell Biol* 14, 1680-8.
3. Cobb, B.S. et al. (1994) *Mol Cell Biol* 14, 147-55.
4. Chen, H.C. et al. (1996) *J Biol Chem* 271, 26329-34.
5. Zhang, X. et al. (1999) *Proc Natl Acad Sci U S A* 96, 9021-6.
6. Calalb, M.B. et al. (1995) *Mol Cell Biol* 15, 954-63.
7. Schlaepfer, D.D. et al. (1994) *Nature* 372, 786-791.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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