

Datasheet: AHP1106

Description:	RABBIT ANTI HUMAN FOCAL ADHESION KINASE
Specificity:	FOCAL ADHESION KINASE
Other names:	FAK1, PROTEIN TYROSINE KINASE 2, PTK2
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			2 - 5ug/ml
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Functional Assays			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to focal adhesion kinase were raised by repeated immunisations of rabbit with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative	0.1% Sodium Azide (NaN ₃)

Stabilisers**Approx. Protein Concentrations**

IgG concentration 1.0mg/ml

Immunogen

Synthetic 16 amino acid peptide for the internal domain of human focal adhesion kinase.

External Database Links**UniProt:**[Q05397](#)[Related reagents](#)**Entrez Gene:**[5747](#)

PTK2

[Related reagents](#)**Synonyms**

FAK, FAK1

RRID

AB_2237895

Specificity

Rabbit anti Human Focal Adhesion Kinase antibody recognizes human focal adhesion kinase 1, also known as Focal adhesion kinase-related nonkinase, Protein phosphatase 1 regulatory subunit 71 or Protein-tyrosine kinase 2. Focal adhesion kinase belongs to the Tyr protein kinase family and contains a single [FERM](#) domain and a single [protein kinase](#) domain. Rabbit anti Human Focal Adhesion Kinase antibody detects an epitope within the internal region of Focal adhesion kinase (FAK), a 125 kDa cytoplasmic protein tyrosine kinase that is activated by numerous stimuli and controls cell motility, proliferation and apoptosis. FAK resides at focal adhesions that form between cells growing in the presence of extracellular matrix constituents ([Brami-Cherrier et al. 2014](#)). FAK is a highly conserved molecule amongst vertebrate species and the immunogen sequence demonstrates 100% identity with mouse, rat, many non-human primates, bovine, rabbit and chicken species.

FAK plays a potential role in oncogenic transformation, and its expression is thought to be correlated to tumour invasiveness ([Ibbetson et al. 2013](#)).

Histology Positive Control Tissue

Ductal and lobular epithelium.

References

1. Mclean, G.W. *et al.* (2005) The role of focal-adhesion kinase in cancer - a new therapeutic opportunity. [Nat Rev Cancer. 5 \(7\): 505-15.](#)
2. Mitra, S.K. *et al.* (2005) Focal adhesion kinase: in command and control of cell motility. [Nat Rev Mol Cell Biol. 6 \(1\): 56-68.](#)

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
 Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
 Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
 Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
 Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)
[100x ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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