

## Datasheet: AHP1106

|                      |                                         |
|----------------------|-----------------------------------------|
| <b>Description:</b>  | RABBIT ANTI HUMAN FOCAL ADHESION KINASE |
| <b>Specificity:</b>  | FOCAL ADHESION KINASE                   |
| <b>Other names:</b>  | FAK1, PROTEIN TYROSINE KINASE 2, PTK2   |
| <b>Format:</b>       | Purified                                |
| <b>Product Type:</b> | Polyclonal Antibody                     |
| <b>Isotype:</b>      | Polyclonal IgG                          |
| <b>Quantity:</b>     | 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](http://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.**

|                                       |                                                                                                                                                                   |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Target Species</b>                 | Human                                                                                                                                                             |
| <b>Product Form</b>                   | Purified IgG - liquid                                                                                                                                             |
| <b>Antiserum Preparation</b>          | Antisera to focal adhesion kinase were raised by repeated immunisations of rabbit with highly purified antigen. Purified IgG prepared by affinity chromatography. |
| <b>Buffer Solution</b>                | Phosphate buffered saline                                                                                                                                         |
| <b>Preservative Stabilisers</b>       | 0.1% Sodium Azide (NaN <sub>3</sub> )                                                                                                                             |
| <b>Approx. Protein Concentrations</b> | IgG concentration 1.0mg/ml                                                                                                                                        |
| <b>Immunogen</b>                      | 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

**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 ([lbbetson 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.

**Shelf Life**

18 months from date of despatch.

**Health And Safety  
Information**

Material Safety Datasheet documentation #10303 available at:  
10303: <https://www.bio-rad-antibodies.com/uploads/MSDS/10303.pdf>

**Regulatory**

For research purposes only

## Related Products

### Recommended Secondary Antibodies

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

Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)  
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),  
[DyLight®680](#), [DyLight®800](#)

## Recommended Useful Reagents

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

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

|                                  |                                                                                                                                         |                  |                                                                                                                                                 |               |                                                                                                                                                     |
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