



Qty: 100 µg/200 µL

Mouse anti-FAK-1

Catalog No. 39-6500

Lot No.

## Mouse anti-FAK-1

### FORM

This monoclonal antibody is supplied as a 200 µL aliquot at a concentration of 0.5 mg/mL in PBS, pH 7.4, containing 0.1% sodium azide. This antibody is highly purified from mouse ascites by protein A chromatography.

**CLONE:** ZF002

**ISOTYPE:** Mouse IgG<sub>1</sub>-kappa

### IMMUNOGEN

Recombinant protein derived from the N-terminal region of the mouse and rat FAK-1 proteins, which share 93% homology with human

### SPECIFICITY

This antibody is specific for the human FAK-1 (focal adhesion kinase 1, FAK, FADK1, FADK, pp125<sup>TAK</sup>) protein. On Western blots, it identifies the target band at ~110 kDa.

### REACTIVITY

Reactivity has been confirmed with HeLa cell lysates and mouse and rat brain homogenates by Western blotting.

| Sample    | ELISA | Western Blotting |
|-----------|-------|------------------|
| Human     | ND    | +++              |
| Mouse     | ND    | +++              |
| Rat       | ND    | +++              |
| Immunogen | +++   | N/A              |

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

### USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

**ELISA:** 0.1 – 1.0 µg/mL  
**Western Blotting:** 1.0 µg/mL

### STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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**BACKGROUND**

Focal adhesion kinase 1 (FAK-1, FADK1, FADK, FAK, pp125<sup>TAK</sup>) is a member of the FAK subfamily of protein tyrosine kinases, but lacks significant sequence similarity to kinases from other subfamilies<sup>1</sup>. At least four different FAK-1 transcript variants have been described<sup>2</sup>. FAK-1 is found in the cytoplasm concentrated in focal adhesions that form between cells growing in the presence of extracellular matrix constituents<sup>1</sup>. Activation of FAK-1 is suggested to be an important early step in cell growth and intracellular signal transduction pathways triggered in response to certain neural peptides or extracellular matrix interactions.

**REFERENCES**

1. Hsia D, et al. *J Cell Biol* 160:753-767, 2003.
2. Andre E, et al. *Biochem Biophys Res Commun* 190:140-147, 1993.

**RELATED PRODUCTS**

| <b>Product</b> | <b>Conjugate</b>          | <b>Cat. No.</b> |
|----------------|---------------------------|-----------------|
| Protein A      | Sepharose <sup>®</sup> 4B | 10-1041         |
| rec-Protein G  | Sepharose <sup>®</sup> 4B | 10-1241         |

| <b>Conjugate</b>  | <b>ZyMAX<sup>™</sup> Goat x Rabbit IgG (H+L)</b> | <b>ZyMAX<sup>™</sup> Goat x Mouse IgG (H+L)</b> |
|-------------------|--|---|
| Purified          | 81-6100  | 81-6500   |
| FITC              | 81-6111  | 81-6511   |
| TRITC             | 81-6114  | 81-6514   |
| Cy <sup>™</sup> 3 | 81-6115  | 81-6515   |
| Cy <sup>™</sup> 5 | 81-6116  | 81-6516   |
| HRP               | 81-6120  | 81-6520   |
| AP                | 81-6122  | 81-6522   |
| Biotin            | 81-6140  | 81-6540   |

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