

Datasheet: VPA00237

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| Description: | RABBIT ANTI PTK2B |
| Specificity: | PTK2B |
| Format: | Purified |
| Product Type: | PrecisionAb™ Polyclonal |
| Isotype: | Polyclonal IgG |
| Quantity: | 100 µl |

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 |
|------------------|-----|----|----------------|--------------------|
| Western Blotting | ▪ | | | 1/1000 |

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependant on sample type.

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| Target Species | Human |
| Product Form | Purified IgG - liquid |
| Preparation | Rabbit polyclonal antibody purified by affinity chromatography |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.09% Sodium Azide (NaN ₃) |
| Immunogen | KLH conjugated synthetic peptide between 805-838 amino acids from the C-terminal region of human PTK2B |
| External Database Links | <p>UniProt: Q14289 Related reagents</p> <p>Entrez Gene: 2185 PTK2B Related reagents</p> |
| Synonyms | FAK2, PYK2, RAFTK |

Specificity **Rabbit anti Human PTK2B antibody** recognizes protein-tyrosine kinase 2-beta, also known as CAK-beta, FADK 2, calcium-dependent tyrosine kinase, calcium-regulated non-receptor proline-rich

tyrosine kinase, cell adhesion kinase beta, focal adhesion kinase 2, proline-rich tyrosine kinase 2, protein kinase B and related adhesion focal tyrosine kinase.

Encoded by the PTK2B gene, protein-tyrosine kinase 2-beta is a cytoplasmic protein tyrosine kinase which is involved in calcium-induced regulation of ion channels and activation of the map kinase signaling pathway. This protein may represent an important signaling intermediate between neuropeptide-activated receptors or neurotransmitters that increase calcium flux and the downstream signals that regulate neuronal activity. Protein-tyrosine kinase 2-beta undergoes rapid tyrosine phosphorylation and activation in response to increases in the intracellular calcium concentration, nicotinic acetylcholine receptor activation, membrane depolarization, or protein kinase C activation. It has been shown to bind CRK-associated substrate, nephrocystin, GTPase regulator associated with FAK, and the SH2 domain of GRB2. Protein-tyrosine kinase 2-beta is a member of the FAK subfamily of protein tyrosine kinases but lacks significant sequence similarity to kinases from other subfamilies. Four transcript variants encoding two different isoforms have been found for PTK2B (provided by RefSeq, Jul 2008).

Rabbit anti Human PTK2B antibody detects a band of 116 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

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| Western Blotting | Anti PTK2B detects a band of approximately 116 kDa in Raji cell lysates |
| Instructions For Use | Please refer to the PrecisionAb western blotting protocol . For additional information on secondary antibody dilution and exposure time see product web page. |
| Storage | Store undiluted at -20°C, avoiding repeated freeze thaw cycles. |
| Shelf Life | As supplied, 12 months from date of despatch. |
| Acknowledgements | PrecisionAb™ is a trademark of Bio-Rad Laboratories. |
| Health And Safety Information | Material Safety Datasheet documentation #10040 available at: Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf |
| Regulatory | For research purposes only |

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR208...) [HRP](#)

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