

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PYK2/FAK2 when phosphorylated at Y402.
Source	Monoclonal Mouse IgG ₁ Clone # 592918
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Phosphopeptide containing the human PYK2/FAK2 Y402 site Accession # Q14289
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

PYK2 (Proline-rich kinase 2; also Ptk2b, Fak2, RAFTK and CAKβ) is a 112-116 kDa member of the Fak subfamily, tyrosine protein kinase family. It is expressed in multiple cell types, including endothelial cells, vascular smooth muscle cells, megakaryocytes and neurons. PYK2 is activated by elevated intracellular Ca⁺⁺ and is associated with MAPK pathway activation. Human PYK2 is 1009 amino acids (aa) in length. PYK2 phosphorylation at Tyr402 is associated with enzymatic activation, intercellular localization, cell growth, cell motility, and regulating molecular associations. Over aa 390-410, human PYK2 is 100% aa identical to mouse PYK2.

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