

DESCRIPTION

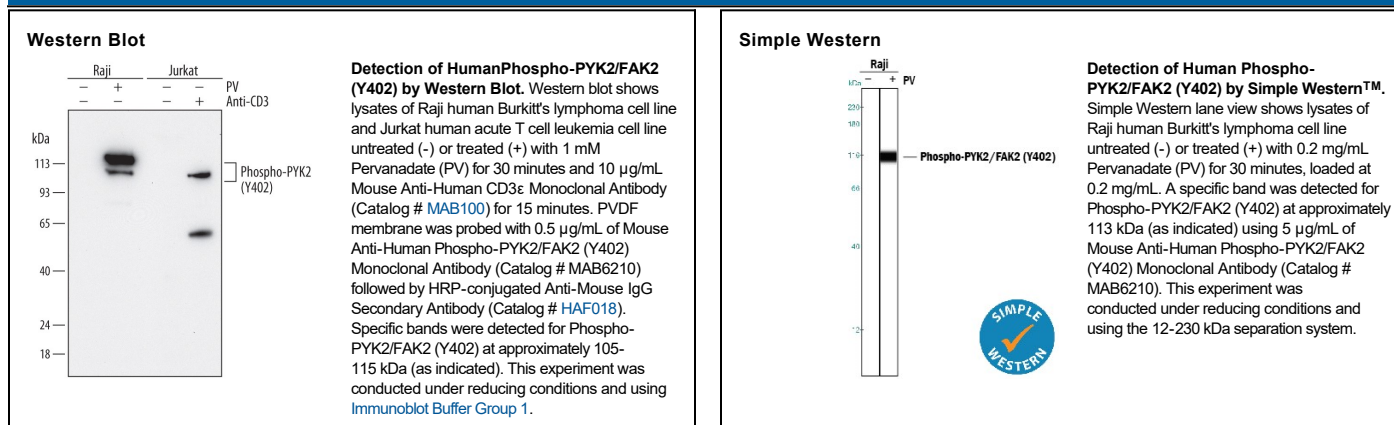
Species Reactivity	Human
Specificity	Detects human PYK2/FAK2 when phosphorylated at Y402.
Source	Monoclonal Mouse IgG ₁ Clone # 592918
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Phosphopeptide containing the human PYK2/FAK2 Y402 site Accession # Q14289
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below
Simple Western	5 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.