

DESCRIPTION

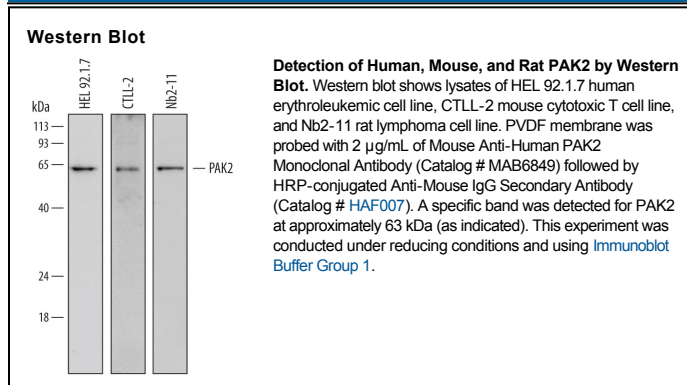
Species Reactivity	Human
Specificity	Detects human PAK2 in direct ELISAs. In direct ELISAs, approximately 5% cross-reactivity with recombinant human (rh) PAK1 and no cross-reactivity with rhPAK1B, 3, 4, 6, or 7 is observed.
Source	Monoclonal Mouse IgG ₃ Clone # 677411
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PAK2 Leu127-Gln221 Accession # Q13177
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 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	2 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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

PAK2 (p21-activated kinase-2) is a widely expressed 58-62 kDa cytoplasmic ser/thr kinase of the PAK family, with substrates including ribosomal S6 and histone H4 proteins. The 524 amino acid (aa) human PAK2 contains phosphorylation, acetylation (K38, K128) and myristoylation (G213) sites, a CRIB (cdc42/Rac interactive binding) domain (aa 74-87), a caspase-3 cleavage site after aa 212, and a kinase domain (aa 249-499). Full-length PAK2 stimulates cell growth and motility, while the caspase cleaved PAK2 kinase domain (34 kDa) is involved in cell death. Within the region used as an immunogen, human PAK2 shares 87% aa identity with mouse and rat PAK2.