

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
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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

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.

PRODUCT SPECIFIC NOTICES

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