

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Importin α3/KPNA4 in ELISA and Western blot. In direct ELISA, no cross-reactivity to human KPNA3 was detected.
Source	Monoclonal Mouse IgG _{2B} Clone # 843124
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Importin α3/KPNA4 Met1-Asn104 Accession # O00629
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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

KPNA4 (Karyopherin subunit alpha 4), also called Importin subunit α4 or Importin αQ1 (previously called Qip1 or Importin α3) is an approximately 58-60 kDa member of the Importin alpha family of proteins. It is ubiquitously expressed, and found in both nucleus and cytoplasm. KPNA4 functions as a cargo carrier that transports various complexes from cytoplasm into nucleus. Human KPNA4 is a 521 amino acid (aa) protein that contains an N-terminal IBB/Importin b domain (aa 2-58), ten Armadillo repeats that bind "cargo" (aa 66-485) and two intervening NLS binding sites. Human KPNA4 aa 1-104 share 99% aa identity with mouse and rat KPNA4, which in turn share 100% identity with each other.

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