

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Importin α 2/KPNA2 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Importin α 2/KPNA2 Met1-Asp132 Accession # P52292
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.
Immunocytochemistry	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

KPNA2 (Karyopherin subunit alpha 2; also SRP1 α , importin subunit α 2 and RAG1) is a 58-60 kDa member of the importin alpha family of proteins. It is ubiquitously expressed, and found in both nucleus and cytoplasm. KPNA2 functions as a cargo carrier that transports various complexes from cytoplasm into nucleus. For the MRN DNA repair complex, KPNA2 first binds to NBS1, and then to importin β 1, which mediates movement through the nuclear pore. Human KPNA2 is 529 amino acids (aa) in length. It contains an N-terminal IBB/importin β domain (aa 2-60), ten Armadillo repeats that bind "cargo" (aa 71-496) and three intervening NLSs. There is one splice variant that shows a deletion of aa 72-310, coupled to an 11 aa substitution for aa 389-406. Over aa 1-132, human KPNA2 shares 94% aa identity with mouse KPNA2.

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