

DESCRIPTION

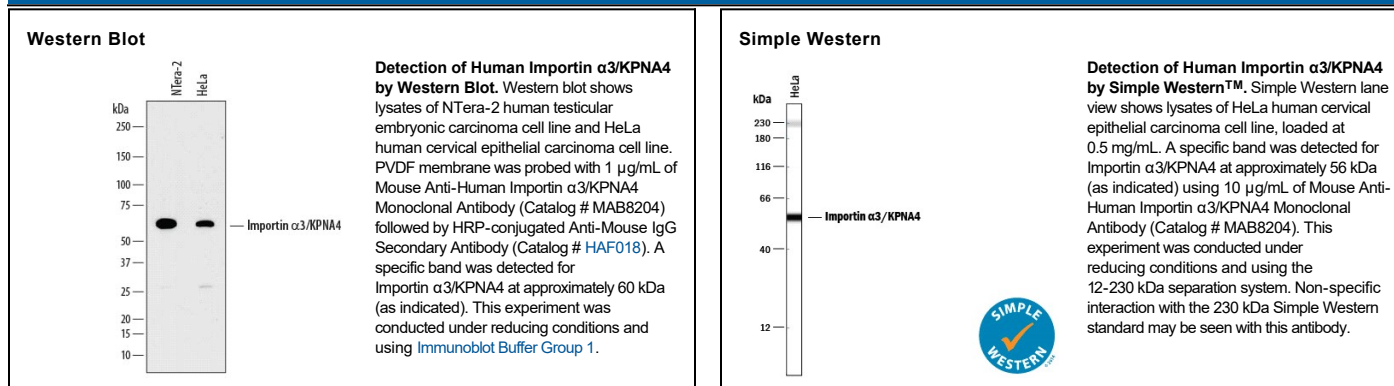
Species Reactivity	Human
Specificity	Detects human Importin α 3/KPNA4 in ELISA and Western blot. In direct ELISA, no cross-reactivity to human KPNA3 was detected.
Source	Monoclonal Mouse IgG _{2B} Clone # 843124
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Importin α 3/KPNA4 Met1-Asn104 Accession # O00629
Formulation	Lyophilized from a 0.2 μ m 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 μ m 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	1 μ g/mL	See Below
Simple Western	10 μ g/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

KPNA4 (Karyopherin subunit alpha 4), also called Importin subunit a4 or Importin aQ1 (previously called Qip1 or Importin a3) 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.