

Human Importin α3/KPNA4 Antibody

Monoclonal Mouse IgG_{2B} Clone # 843124 Catalog Number: MAB8204

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 # 000629		
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 either lyophilized or as a 0.2 µm filtered solution in PBS.		

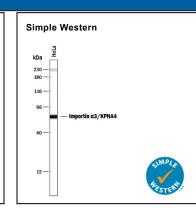
APPLICATIONS

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	1 μg/mL	See Below
Simple Western	10 μg/mL	See Below

DATA Western Blot kDa 250 — 150 — 150 — 75 — 25 — 20 — 1mportin α3./kPNA4

Detection of Human Importin $\alpha 3$ /KPNA4 by Western Blot. Western blot shows lysates of NTera-2 human testicular embryonic carcinoma cell line and HeLa human cervical epithelial carcinoma cell line. PVDF membrane was probed with 1 μ g/mL of Mouse Anti-Human Importin $\alpha 3$ /KPNA4 Monoclonal Antibody (Catalog # MAB8204) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Importin $\alpha 3$ /KPNA4 at approximately 60 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



Detection of Human Importin α3/KPNA4 by Simple Western ™. Simple Western lane view shows lysates of HeLa human cervical epithelial carcinoma cell line, loaded at 0.5 mg/mL. A specific band was detected for Importin α3/KPNA4 at approximately 56 kDa (as indicated) using 10 μg/mL of Mouse Anti-Human Importin α3/KPNA4 Monoclonal Antibody (Catalog # MAB8204). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system. Non-specific interaction with the 230 kDa Simple Western standard may be seen with this antibody.

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

- 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.

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