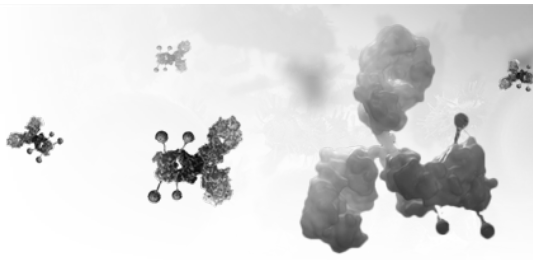

Mouse anti-Human Karyopherin α monoclonal antibody, clone 3 (CABT-B9227)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Human Rch-1 aa. 254-497
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human, Mouse, Rat, Dog, Fly
Clone	3
Purification	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Conjugate	Unconjugated
Applications	WB; IHC; IF; IP
Format	Liquid
Concentration	250 μg/ml
Size	50 μg, 150 μg
Buffer	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.
Storage	Store undiluted at -20°C.

BACKGROUND

Introduction	The two step process of importing proteins into the nucleus involves the binding and interaction

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

	of several cytosolic and nuclear pore proteins. Proteins to be translocated into the nucleus contain a nuclear localization sequence (NLS) which is recognized and bound by carrier proteins in the cytosol. Heterodimers belonging to a highly conserved family of proteins called karyopherins are required for successful nuclear localization of cytosolic proteins. The α-subunits appear to function in the binding of NLS (both simple and bitartite NLS motifs), but both α- and β-subunits are required for successful docking to the nuclear envelope. ATP is required for complete translocation of proteins into the nucleus. Karyopherin α2 was first identified as Rch-1, an NLS receptor which interacts with the RAG-1 recombination-activating protein in developing B and T cells. Rch-1 has been reported to be 44% identical to karyopherin α1 (hSRP-1 /NPI-1).
Keywords	KPNA3; karyopherin alpha 3 (importin alpha 4); SRP1; SRP4; IPOA4; hSRP1; SRP1gamma; importin subunit alpha-4; qip2; SRP1-gamma; importin alpha 4; importin alpha-3; importin alpha Q2; importin-alpha-Q2; importin subunit alpha-3; karyopherin subunit alpha-3;

GENE INFORMATION

Entrez Gene ID	3839
UniProt ID	A0A024RDV7

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Tel: 1-631-624-4882 Fax: 1-631-938-8221