



Mouse anti-Rat Karyopherin beta monoclonal antibody, clone 34 (CABT-B9228)

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

PRODUCT INFORMATION

Immunogen	Rat Karyopherin β aa. 48-241
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human, Mouse, Rat, Dog
Clone	34
Purification	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Conjugate	Unconjugated
Applications	WB; IF; IHC; IP
Format	Liquid
Concentration	250 μ g/ml
Size	50 μ g, 150 μ g
Buffer	Aqueous buffered solution containing BSA, glycerol, and $\leq 0.09\%$ sodium azide.
Storage	Store undiluted at -20°C .

BACKGROUND

Introduction Using nuclear import assays, several cytosolic proteins that form a multi-protein complex have

been identified. These proteins of 54 kDa, 56 kDa, and 97 kDa stimulate the nuclear transport of proteins containing a nuclear localization signal (NLS). The 97 kDa protein has been named karyopherin β . The NLS binds to karyopherin α . Binding is enhanced by karyopherin β . The NLS substrate also binds to the N-terminal region of karyopherin β . Both karyopherins bind to repeat sequences of nucleoporins at the nuclear envelope. Once the substrate is docked to the nuclear envelope, Ran hydrolyzes GTP and translocation occurs. Karyopherin β also binds to and inhibits the Ran GTPase protein, thus providing a mechanism of nuclear transport termination.

Keywords

KPNB1; karyopherin (importin) beta 1; IMB1; IPO1; IPOB; Impnb; NTF97; importin subunit beta-1; PTAC97; importin 1; importin 90; importin-90; nuclear factor p97; importin beta-1 subunit; karyopherin subunit beta-1; pore targeting complex 97 kDa subunit;

GENE INFORMATION

Entrez Gene ID

[3837](#)

UniProt ID

[Q14974](#)
