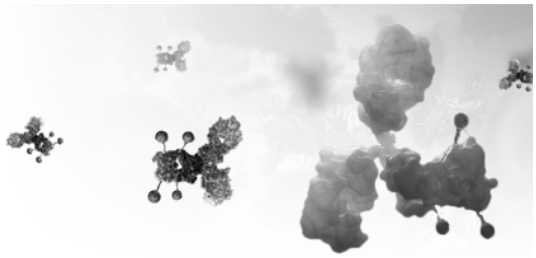

Mouse anti-Human KAP monoclonal antibody, clone 40/LBQ (CABT-B9225)

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

PRODUCT INFORMATION

Immunogen	Human KAP aa. 1-212
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human, Mouse, Rat, Dog, Chicken, Frog
Clone	40/LBQ
Purification	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Conjugate	Unconjugated
Applications	WB; Bioimaging; IHC
Format	Liquid
Concentration	250 μg/ml
Size	50 μg
Buffer	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.
Storage	Store undiluted at -20°C.

BACKGROUND

Introduction	Proteins that associate with cyclin-dependent kinases may function in cell cycle regulation.

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	Therefore, a two-hybrid screen system was used to isolate cDNA which encode proteins that can interact with Cdk2. One of these was the dual-specificity protein phosphatase known as KAP (Cdk associated phosphatase). KAP contains the HCXXXXGR motif characteristic of protein tyrosine phosphatases. It utilizes substrates that contain either phosphotyrosine or phosphoserine residues. In addition to binding Cdk2, KAP also associates with Cdc2. KAP does not require a cyclin subunit for binding to Cdk2 and Cdc2. The association of KAP with these two Cdks suggests that KAP may play a role in cell cycle control, possibly by regulating the phosphorylation status of a cdk or of a Cdk-associated protein.
Keywords	CDKN3; cyclin-dependent kinase inhibitor 3; kinase-associated phosphatase; CDK2-associated dual-specificity phosphatase; 2410006H10Rik;

GENE INFORMATION

Entrez Gene ID	1033
UniProt ID	Q16667

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