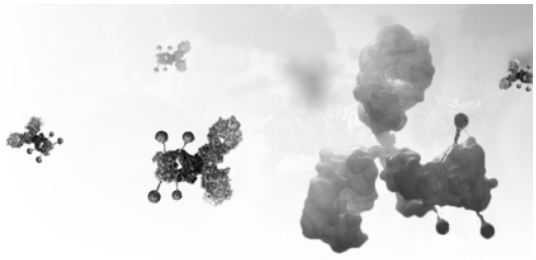

Rat Anti-CDKN2B monoclonal antibody, clone QBU67C (CABT-RM164)

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

PRODUCT INFORMATION

Specificity	Specifically detects murine Cyclin-dependent kinase 4 inhibitor B (p15-INK4b).
Target	CDKN2B
Immunogen	GST/His-tagged recombinant full-length mouse Cyclin-dependent kinase 4 inhibitor B (p15-INK4b).
Isotype	IgG2a, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	QBU67C
Purification	Protein G purified
Conjugate	unconjugated
Applications	WB, IHC
Molecular Weight	~14 kDa observed; 13.79 kDa calculated. Uncharacterized bands may be observed in some lysate(s).
Format	Liquid
Size	100 µg
Buffer	0.1 M Tris-Glycine (pH 7.4), 150 mM NaCl
Preservative	0.05% sodium azide

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Storage	Stable for 1 year at 2-8°C from date of receipt.

BACKGROUND

Introduction	Cyclin-dependent kinase 4 inhibitor B is encoded by the Cdkn2b gene in murine species. p15-INK4b is a ubiquitously expressed member of the INK4 family of cyclin-dependent kinase inhibitors. It induces a G1-phase cell cycle arrest through heterodimerization with cyclin-dependent kinase 4/6, thereby serves as a tumor suppressor. It also serves as a potential effector of TGF-beta induced cell cycle arrest. p15 also plays an important role in the regulation of cellular commitment of hematopoietic progenitor cells and myeloid cell differentiation. It contains four ankyrin repeats (aa 5-34; 38-66; 71-100; and 104-130). p15 shares extensive homology with p16 and serves an important backup function for p16 in senescence. Cdkn2b gene is frequently hypermethylated in myeloid neoplasia. Genes coding for both p15 and p16 are reported to often deleted in human tumors. p15 can serve as a good prognostic marker for monitoring the response to treatment with DNA methylation inhibitors.
Keywords	CDKN2B; cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4); P15; MTS2; TP15; CDK4I; INK4B; p15INK4b; cyclin-dependent kinase 4 inhibitor B; MTS-2

GENE INFORMATION

Entrez Gene ID	12579
UniProt ID	P55271

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