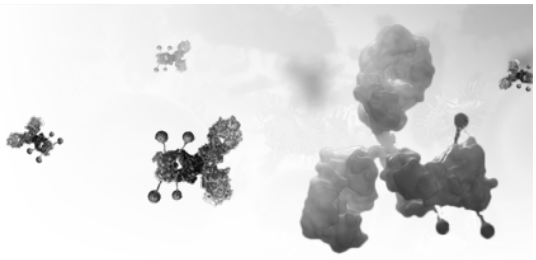

Mouse anti-Human p107 monoclonal antibody, clone TE0 (CABT-B9252)

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

PRODUCT INFORMATION

Immunogen	Human Full-length p107 Recombinant Protein
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	TE0
Purification	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Conjugate	Unconjugated
Applications	WB; Gel shift; IP
Format	Liquid
Concentration	0.5 mg/ml
Size	100 µg
Buffer	Aqueous buffered solution containing ≤0.09% sodium azide.
Storage	Store undiluted at 4°C.

BACKGROUND

Introduction	p107 is a cellular protein that, like the retinoblastoma protein (Rb), can bind SV40 large T

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	antigen and adenovirus E1A. It was originally described as an E1A-associated protein that was detected in extracts of the 293 adenovirus transformed human kidney cell line. p107 and Rb share sequence homology which mainly extends throughout their large T/E1A binding pockets. In cells that do not contain the viral oncogenes, p107 and Rb associate, independently, with cellular E2F. E2F, originally identified as an activator of the adenovirus E1A promoter, is a transcription factor. It is believed that E2F plays a role in the control of cellular genes that respond to proliferation signals. In vivo, the large T/E1A binding pocket of Rb, associates with E2F primarily in G1 and S phase. p107 forms two complexes with E2F, one in S phase with cdk2 and cyclin A, and one in G1 phase with cdk2 and cyclin E. In vitro, the pocket regions of p107 and Rb associate with the same set of proteins, except that p107 also associates with two additional proteins, one of which is cyclin A. Since p107 shares structural and biochemical features with Rb it has been suggested that p107, like Rb, is a tumor suppressor gene product; however, the biological function of p107 remains speculative. The SD9 clone has been reported to be crossreactive on monkey and mouse p107. It reportedly does not crossreact with Rb. Reports of epitope mapping have shown that SD9 recognizes a region between amino acids 414-653 of human p107.
Keywords	RBL1; retinoblastoma-like 1; PRB1; p107; CP107; retinoblastoma-like protein 1; cellular protein 107; retinoblastoma-like 1 (p107); 107 kDa retinoblastoma-associated protein;

GENE INFORMATION

Entrez Gene ID	5933
UniProt ID	P28749

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