



Mouse anti-Human P21 monoclonal antibody, clone TYN40 (CABT-B9261)

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

PRODUCT INFORMATION

Immunogen	Human p21
Isotype	IgG1, κ
Source/Host	Mouse
Species Reactivity	Human, Mouse, Rat
Clone	TYN40
Purification	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Conjugate	Unconjugated
Applications	WB; IHC-Fr; IP; IF; IHC-formalin
Format	Liquid
Concentration	0.5 mg/ml
Size	100 μ g
Buffer	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.
Storage	Store undiluted at -20°C .

BACKGROUND

Introduction The p21 protein belongs to a class of tumor suppressors including p16 and p27 which control

progression through the cell cycle by inhibiting the activity of cyclin-cdk complexes. p21 is also known as senescent cell-derived inhibitor 1 (Sdi1), wild-type p53-activated fragment 1 (Waf1), Cdk-interacting protein 1 (Cip1), p21, and p53-regulated inhibitor of Cdks (Pic1). The 2.1 kb cDNA coding for p21 was first cloned from a library made from senescent normal human foreskin fibroblasts. When introduced into proliferating foreskin fibroblasts it causes inhibition of DNA synthesis and cell cycle arrest. The p21 mRNA is expressed at higher levels in senescent fibroblasts than in actively growing cells. The resultant protein has a calculated molecular weight of 18 kDa and runs at 21 kDa in SDS/PAGE. p21 is believed to function by inhibiting the kinase activity of the cyclin-cdk complexes to which it binds. p53 has been shown to cause the induction of p21 gene, presumably by recognizing a p53 binding site identified in the promoter of the p21 gene. Clone 3H23 recognizes human p21. A full-length human p21 fusion protein was expressed in bacteria and used as immunogen. Mice were immunized and hybridomas were selected for reactivity against p21 by ELISA and western blot analysis.

Keywords

CDKN1A; cyclin-dependent kinase inhibitor 1A (p21, Cip1); P21; CIP1; SDI1; WAF1; CAP20; CDKN1; MDA-6; p21CIP1; cyclin-dependent kinase inhibitor 1; DNA synthesis inhibitor; CDK-interacting protein 1; CDK-interaction protein 1; wild-type p53-activated fragment 1; melanoma differentiation associated protein 6;

GENE INFORMATION

Entrez Gene ID

[1026](#)

UniProt ID

[A0A024RCX5](#)
