

Immunotag™ p21 Polyclonal Antibody

Antibody Specification	
Catalog No.	ITT3497
Product Description	Immunotag™ p21 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	p21
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	IF, WB, IHC-p, ELISA
Recommended Dilution	IF: 1:50-200 Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human, Mouse, Rat
Host Species	Rabbit
Immunogen	The antiserum was produced against synthesized peptide derived from human p21 Cip1. AA range: 111-160
Specificity	p21 Polyclonal Antibody detects endogenous levels of p21 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	CDKN1A
Accession No.	P38936 P39689
Alternate Names	CDKN1A; CAP20; CDKN1; CIP1; MDA6; PIC1; SDI1; WAF1; Cyclin-dependent kinase inhibitor 1; CDK-interacting protein 1; Melanoma differentiation-associated protein 6; MDA-6; p21

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Description	cyclin dependent kinase inhibitor 1A(CDKN1A) Homo sapiens This gene encodes a potent cyclin-dependent kinase inhibitor. The encoded protein binds to and inhibits the activity of cyclin-cyclin-dependent kinase2 or -cyclin-dependent kinase4 complexes, and thus functions as a regulator of cell cycle progression at G1. The expression of this gene is tightly controlled by the tumor suppressor protein p53, through which this protein mediates the p53-dependent cell cycle G1 phase arrest in response to a variety of stress stimuli. This protein can interact with proliferating cell nuclear antigen, a DNA polymerase accessory factor, and plays a regulatory role in S phase DNA replication and DNA damage repair. This protein was reported to be specifically cleaved by CASP3-like caspases, which thus leads to a dramatic activation of cyclin-dependent kinase2, and may be instrumental in the execution of apoptosis following caspase activation. Mice that lac
Cell Pathway/ Category	Stem cell pathway, ErbB/HER, PI3K/Akt, AMPK, Cell_Cycle_G1S,Cell_Cycle_G2M_DNA, Protein_Acetylation
Protein Expression	Aorta endothelial cell,Epithelium,Eye,Lung,
Subcellular Localization	cyclin-dependent protein kinase holoenzyme complex,nucleus,nucleoplasm,nucleolus,cytosol,protein complex,perinuclear region of cytoplasm,PCNA-p21 complex,
Protein Function	function:May be the important intermediate by which p53 mediates its role as an inhibitor of cellular proliferation in response to DNA damage. Binds to and inhibits cyclin-dependent kinase activity, preventing phosphorylation of critical cyclin-dependent kinase substrates and blocking cell cycle progression.,induction:By p53, mezerein (antileukemic compound) and interferon beta.,PTM:Phosphorylation of Thr-145 by Akt or of Ser-146 by PKC impairs binding to PCNA.,similarity:Belongs to the CDI family.,tissue specificity:Expressed in all adult human tissues, with 5-fold lower levels observed in the brain.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.