For Research Use Only

P21 Recombinant antibody, PBS Only

Catalog Number:82669-2-PBS



Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 82669-2-PBS BC000275 Protein A purification GenelD (NCBI): CloneNo.: Size: 100ug , Concentration: 1mg/ml by 1026 3N14 Nanodrop: UNIPROT ID: Source: P38936 Rabbit Full Name: Isotype: cyclin-dependent kinase inhibitor 1A lgG (p21, Cip1) Immunogen Catalog Number: Calculated MW: AG0368 18 kDa Observed MW: 21 kDa **Applications Tested Applications:** WB, IF/ICC, IP, Indirect ELISA Species Specificity: human CDKN1A (p21, CIP1, WAF1) is a cyclin-dependent kinase inhibitor. CDKN1A binds to and inhibits the activity of **Background Information** cyclin-CDK2 or -CDK4 complexes, and thus functions as a regulator of cell cycle progression at the G1 phase. The expression of CDKN1A is induced by wild-type but not mutant p53 protein, through which CDKN1A mediates the p53-dependent cell cycle G1 phase arrest in response to a variety of stress stimuli. CDKN1A can interact with proliferating cell nuclear antigen (PCNA), and plays a regulatory role in S phase DNA replication and DNA damage repair. CDKN1A was reported to be specifically cleaved by CASP3-like caspases, which thus leads to a dramatic activation of CDK2, and may be instrumental in the execution of apoptosis following caspase activation. Two alternatively spliced variants, which encode an identical protein, have been reported. **Storage** Storage: Store at -80°C. Storage Buffer: PBS Only

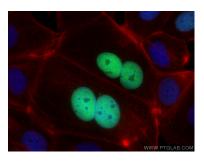
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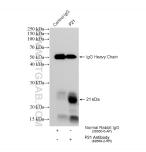
Selected Validation Data



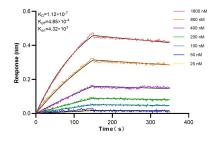
Various lysates were subjected to SDS PAGE followed by western blot with 82669-2-RR (P21 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82669-2-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using P21 antibody (82669-2-RR, Clone: 3N14) at dilution of 1:2000 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red). This data was developed using the same antibody clone with 82669-2-PBS in a different storage buffer formulation.



IP result of anti-P21 (IP:82669-2-RR, 4ug; Detection:82669-2-RR 1:800) with MCF-7 cells lysate 760 ug. This data was developed using the same antibody clone with 82669-2-PBS in a different storage buffer formulation.



Biolayer interferometry (BLl) kinetic assays of 82669-2-RR against Human P21 were performed. The affinity constant is 112 nM.