

## p21 Recombinant Human Protein

| Product Specifications   |   |
|--|---|
| <b>Catalog Number:</b>   | 908-281   |
| <b>Product Description</b>   | Human   |
| <b>Application Notes:</b>  | <b>WB:</b> Yes<br><b>Activity Assays:</b> Yes<br><b>ELISA:</b> Yes<br><i>On SDS-PAGE commassie blue stained gel, the purified recombinant protein shows a band at 47 kDa.</i> |
| <b>Molecular Weight</b>  | ~47 kDa including GST tag   |
| <b>Format:</b>   | Recombinant full length human p21 protein expressed in <i>E. coli</i> , in 50 mM Tris-Acetate, pH 7.5, 1 mM EDTA, 20% glycerol  |
| <b>Concentration:</b>  | See product label   |
| <b>Storage:</b>  | Store at -70°C  |
| <i>Shipping conditions may differ from the recommended storage temperature</i> |   |
| <b>Related Products:</b>   |   |
| 900-161  | Human p21 EIA Kit   |
| 900-117  | p53 EIA Kit   |
| 900-139  | p27/Kip1 EIA Kit  |

### Background:

Expression of tumor suppressor protein p21 (also CIP1, SDI1 and PIC1) is induced by wild type - but not mutant - p53 suppressor protein. The p21 protein binds to cyclin/CDK complexes and inhibits their kinase activity, thereby stopping cell cycle progression. Meanwhile, the p21 protein also binds to PCNA, and blocks DNA replication but not the DNA repair process. Evidently, inactivation of p53 disrupts the p53-dependent expression of p21. p21 is a tumor suppressor involved in the pathogenesis of a variety of malignancies.

**FOR RESEARCH USE ONLY; NOT FOR THERAPEUTIC OR DIAGNOSTIC USE**

5777 Hines Drive • Ann Arbor, MI • 48108 | Tel: 800-833-8651 or 800-668-6113 | Fax: 734-668-2793  
[www.assaydesigns.com](http://www.assaydesigns.com) | [orders@assaydesigns.com](mailto:orders@assaydesigns.com) | [technical@assaydesigns.com](mailto:technical@assaydesigns.com)

Last Revised: 7-16-08