

## Basic Information

Product Name	Anti-CDC37 Antibody
Gene Name	CDC37
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human Cdc37 recombinant protein (Position: M216-V378). Human Cdc37 shares 95.7% and 95.1% amino acid (aa) sequence identity with mouse and rat Cdc37, respectively.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	44 kDa
Dilution Ratios	Western blot (WB):1:500-2000

## Storage

12 months from date of receipt, -20°C as supplied.

## Background Information

Hsp90 co-chaperone Cdc37, also called P50CDC37, is a protein that in humans is encoded by the CDC37 gene. The protein encoded by this gene is highly similar to Cdc 37, a cell division cycle control protein of *Saccharomyces cerevisiae*. This gene is mapped to 19p13.2. And this protein is a molecular chaperone with specific function in cell signal transduction. It has been shown to form complex with Hsp90 and a variety of protein kinases including CDK4, CDK6, SRC, RAF-1, MOK, as well as eIF2 alpha kinases. It is thought to play a critical role in directing Hsp90 to its target kinases.

## Selected Validation Data

**116KD –****97KD –****58KD –****40KD –****29KD –****20KD –****14KD –**

Western blot analysis of CDC37 using anti-CDC37 antibody (PB0605). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: 293T whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-CDC37 antigen affinity purified polyclonal antibody (PB0605) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for CDC37 at approximately 44 kDa. The expected band size for CDC37 is at 44 kDa.