10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# CDC37 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8965C

## Product Information

| | |
|---|---|
| **Application** | WB, IHC-P, FC, E |
| **Primary Accession** | Q16543 |
| **Reactivity** | Human, Rat, Mouse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB22954 |
| **Calculated MW** | 44468 |
| **Antigen Region** | 116-144 |

## Additional Information

| | |
|---|---|
| **Gene ID** | 11140 |
| **Other Names** | Hsp90 co-chaperone Cdc37, Hsp90 chaperone protein kinase-targeting subunit, p50Cdc37, Hsp90 co-chaperone Cdc37, N-terminally processed, CDC37, CDC37A |
| **Target/Specificity** | This CDC37 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 116-144 amino acids from the Central region of human CDC37. |
| **Dilution** | WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | CDC37 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

| | |
|---|---|
| **Name** | CDC37 |
| **Synonyms** | CDC37A |

| | |
|---|---|
| **Function** | Co-chaperone that binds to numerous kinases and promotes their interaction with the Hsp90 complex, resulting in stabilization and promotion of their activity (PubMed:8666233). Inhibits HSP90AA1 ATPase activity (PubMed:23569206). |
| **Cellular Location** | Cytoplasm. |

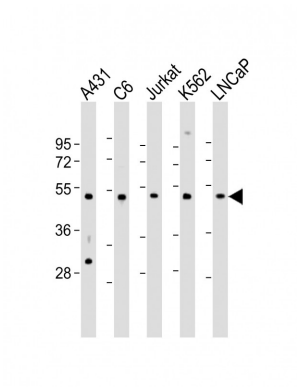
## Background

CDC37 is a cell division cycle control protein of Sacchromyces cerevisiae. 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.

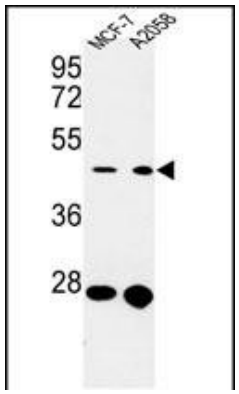
## References

Dai,K., et.al., J. Biol. Chem. 271 (36), 22030-22034 (1996)
Lamphere,L., et.al., Oncogene 14 (16), 1999-2004 (1997)

## Images

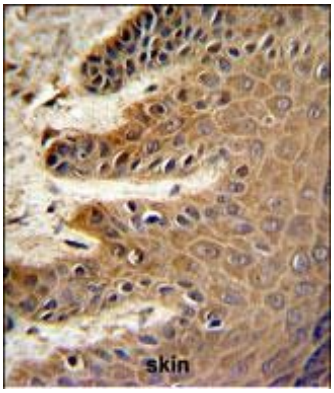


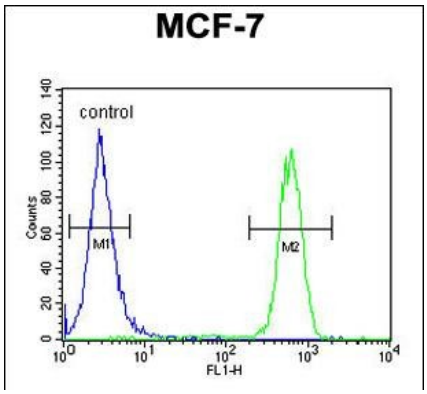

All lanes : Anti-CDC37 Antibody (Center) at 1:2000 dilution Lane 1: A431 whole cell lysate Lane 2: C6 whole cell lysate Lane 3: Jurkat whole cell lysate Lane 4: K562 whole cell lysate Lane 5: LNCaP whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 44 kDa Blocking/Dilution buffer: 5% NFDM/TBST.




Western blot analysis of CDC37 Antibody (Center) (Cat. #AP8965c) in MCF-7, A2058 cell line lysates (35ug/lane). CDC37 (arrow) was detected using the purified Pab.

CDC37 Antibody (Center) (Cat. #AP8965c) IHC analysis in formalin fixed and paraffin embedded skin followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CDC37 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.




CDC37 Antibody (Center) (Cat. #AP8965c) flow cytometric analysis of MCF-7 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.