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.

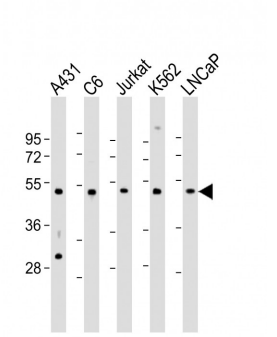
Background

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.

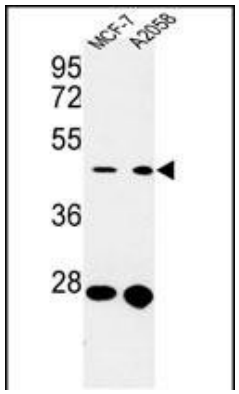
References

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

Images

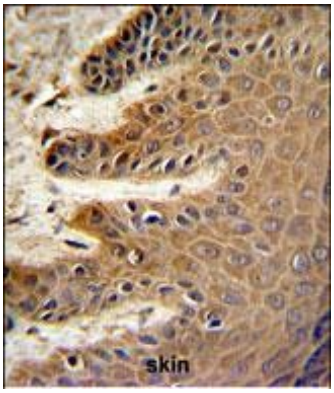


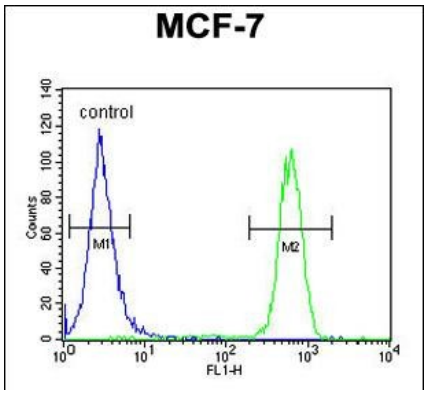
All lanes : Anti-CDC37 Antibody (Center) at 1:2000 dilution Lane 1: A431 whole cell lysate Lane 2: C6 whole cell lysate Lane 3: Jurkat whole cell lysate Lane 4: K562 whole cell lysate Lane 5: LNCaP whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase 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.