CDC37 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CDC37, Polyclonal Antibody
Full Product Name	CDC37, ID (CDC37, CDC37A, Hsp90 co-chaperone Cdc37, Hsp90 chaperone protein kinase-targeting subunit, p50Cdc37) (MaxLight 550)
Product Gene Name	anti-CDC37 antibody
Product Synonym Names	CDC37; CDC37A; Hsp90 co-chaperone Cdc37; Hsp90 chaperone protein kinase-targeting subunit; p50Cdc37
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	44,468 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (10501809..10514271, complement). Location: 19p13.2
OMIM	605065
3D Structure	ModBase 3D Structure for Q16543
Immunogen	CDC37 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 123~152 amino acids from the Center region of human CDC37.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-CDC37 antibody	Antibodies; Heat Shock Proteins
Applications Tested/Suitable for anti-CDC37 antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-CDC37 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-CDC37 antibody	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.
Product References and Citations for anti-CDC37 antibody	Dai, K., et.al., J. Biol. Chem. 271 (36), 22030-22034 (1996). Lamphere, L., et.al., Oncogene 14 (16), 1999-2004 (1997).

Other Notes	Small volumes of anti-CDC37 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CDC37 purchase	MBS6283903 is an antibody targeting CDC37. Also known as CDC37, ID (CDC37, CDC37A, Hsp90 co-chaperone Cdc37, Hsp90 chaperone protein kinase-targeting subunit, p50Cdc37) (MaxLight 550). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDC37. It may not necessarily be applicable to this product.

NCBI GI #	5901922
NCBI GeneID	11140
NCBI Accession #	NP_008996.1
UniProt Primary Accession #	Q16543
UniProt Secondary Accession #	Q53YA2
UniProt Related Accession #	Q16543
GenBank Nucleotide #	NM_007065.3
NCBI Official Full Name	hsp90 co-chaperone Cdc37
NCBI Official Synonym Full Names	cell division cycle 37
NCBI Official Symbol	CDC37
NCBI Official Synonym Symbols	P50CDC37
UniProt Protein Name	Hsp90 co-chaperone Cdc37
UniProt Synonym Protein Names	Hsp90 chaperone protein kinase-targeting subunit; p50Cdc37
Protein Family	Hsp90 co-chaperone
UniProt Gene Name	CDC37
UniProt Synonym Gene Names	CDC37A
UniProt Entry Name	CDC37_HUMAN
NCBI Protein Information	hsp90 co-chaperone Cdc37; cell division cycle 37 homolog; CDC37 cell division cycle 37 homolog; hsp90 chaperone protein kinase-targeting subunit; CDC37 (cell division cycle 37, S. cerevisiae, homolog)
NCBI Summary for CDC37	The protein encoded by this gene is highly similar to Cdc 37, 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. [provided by RefSeq, Jul 2008]

UniProt Comments for CDC37	CDC37: a molecular chaperone that functions in cell signal transduction. Forms complexes with Hsp90 and a variety of protein kinases including CDK4, CDK6, SRC, RAF-1, MOK, as well as eIF2 alpha kinases. Also interacts with androgen receptor. It is thought to play a critical role in directing Hsp90 to its target kinases. Protein type: Chaperone Chromosomal Location of Human Ortholog: 19p13.2 Cellular Component: protein complex; cytoplasm; cytosol Molecular Function: protein kinase B binding; protein binding; heat shock protein binding; chaperone binding; unfolded protein binding; Hsp90 protein binding; mitogen-activated protein kinase kinase kinase binding; kinase binding Biological Process: protein stabilization; protein folding; regulation of cyclin-dependent protein kinase activity; protein targeting
Research Articles on CDC37	**1.** ERK5 interacts with the Hsp90-Cdc37 chaperone in resting cells, and inhibition of Hsp90 or Cdc37 results in ERK5 ubiquitylation and proteasomal degradation.
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