SunLong Biotech Co.,LTD
Tel: 0086-571- 56623320 Fax:0086-571- 56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

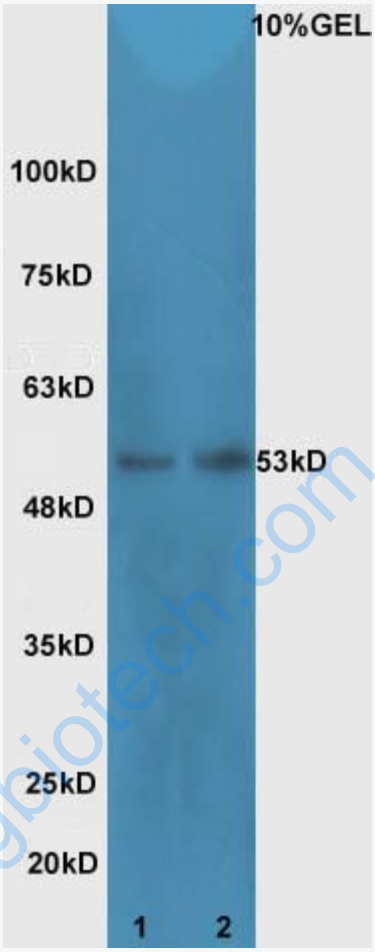
Rabbit Anti-Cdc25C antibody

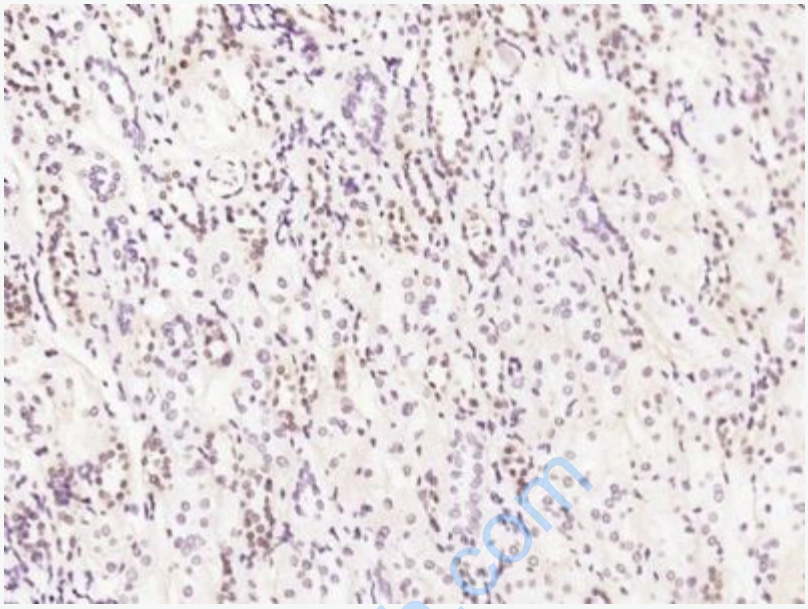
SL9597R

Product Name:	Cdc25C
Chinese Name:	细胞分裂周期蛋白25C抗体
Alias:	CDC 25; Cdc 25C; CDC25; Cell division cycle 25 homolog C; Cell division cycle 25C; Cell division cycle 25C protein; Dual specificity phosphatase Cdc25C; M phase inducer phosphatase 3; Mitosis inducer CDC25; MPIP3; Phosphotyrosine phosphatase; MPIP3_HUMAN.
文献引用 PubMed :	**Specific References(2)**|SL9597R has been referenced in 2 publications. **[IF=3.73]**Ghate, Nikhil Baban, et al. "An Antioxidant Extract of Tropical Lichen, Parmotrema reticulatum, Induces Cell Cycle Arrest and Apoptosis in Breast Carcinoma Cell Line MCF-7." PLOS ONE 8.12 (2013): e82293.**WB;Human**. PubMed:24358166 **[IF=0.00]**Ghate, N. B., et al. "Sundew plant, a potential source of anti-inflammatory agents, selectively induces G2/M arrest and apoptosis in MCF-7 cells through upregulation of p53 and Bax/Bcl-2 ratio." Cell Death Discovery 2 (2016).**WB;Human**. PubMed:27551490
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,
Applications:	WB=1:500-2000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1μg/Test（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	53kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid

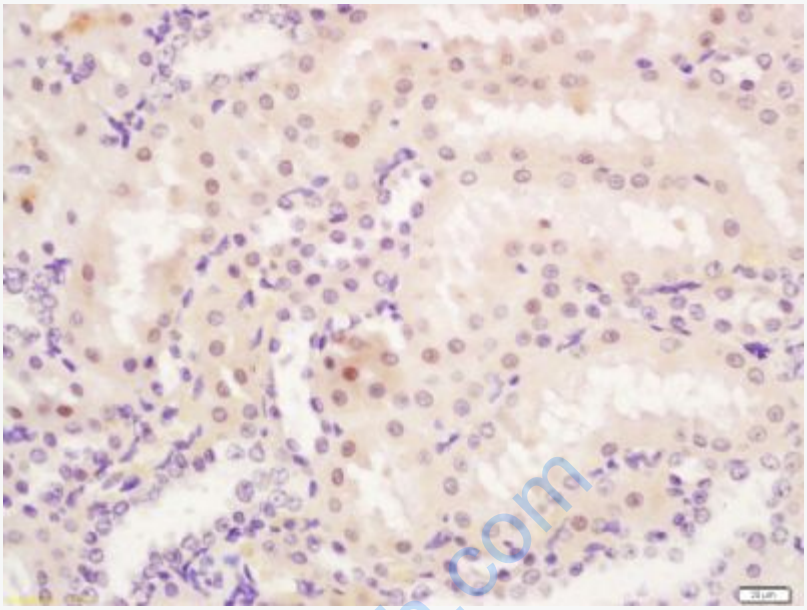
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Cdc25C:261-360/473
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	This gene is highly conserved during evolution and it plays a key role in the regulation of cell division. The encoded protein is a tyrosine phosphatase and belongs to the Cdc25 phosphatase family. It directs dephosphorylation of cyclin B-bound CDC2 and triggers entry into mitosis. It is also thought to suppress p53-induced growth arrest. Multiple alternatively spliced transcript variants of this gene have been described, however, the full-length nature of many of them is not known. [provided by RefSeq, Jul 2008] **Function:** Functions as a dosage-dependent inducer in mitotic control. It is a tyrosine protein phosphatase required for progression of the cell cycle. It directly dephosphorylates CDK1 and activate its kinase activity. **Subunit:** Interacts with HIV-1 Vpr, thereby inactivating CDC25C phosphatase activity. Interacts with MAPK14 and 14-3-3 proteins. **Subcellular Location:** Nucleus. **Post-translational modifications:** Phosphorylated by CHEK1 and MAPK14 at Ser-216. This phosphorylation creates a binding site for 14-3-3 protein and inhibits the phosphatase. Phosphorylated by PLK4. Phosphorylated by PLK1, leading to activate the phosphatase activity. Phosphorylation by PLK3 at Ser-191 promotes nuclear translocation. Ser-198 is a minor phosphorylation site. Was initially reported to be phosphorylated by PLK3 at Ser-216 (PubMed:10557092). However, such phosphorylation by PLK3 was not confirmed by other groups. Phosphorylation at Thr-48, Thr-67, Ser-122, Thr-130, Ser-168 and Ser-214 occurs at G2 and G2-M transition and is probably catalyzed by CDK1. Ser-168 phosphorylation levels are lower than those at the other 5 CDK1 sites. Phosphorylation by CDK1 leads to increased activity. **Similarity:** Belongs to the MPI phosphatase family. Contains 1 rhodanese domain. **SWISS:**

	P30307 **Gene ID:** 995 **Database links:** Entrez Gene: 995Human Omim: 157680Human SwissProt: P30307Human Unigene: 656Human **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. CDC25家族的组成哺乳动物中CDC25家族一共包括3种同源异构体（CDC25A、CDC25B、CDC25C），约有50%的序列同源，是一组在细胞周期调控中发挥巨大作用的苏/酪氨酸双功能酶 。不同的CDC25家族蛋白在细胞周期中的作用时相亦有差异，CDC25A和CDC25C分别在S期和M期发挥主要作用。

Picture:	 Sample: Intestine (Mouse) Lysate at 40 ug Testis (Mouse) Lysate at 40 ug Primary: Anti-Cdc25C (SL9597R) at 1/300 dilution Secondary: HRP conjugated Goat-Anti-rabbit IgG (SL9597R) at 1/5000 dilution Predicted band size: 53 kD Observed band size: 53 kD



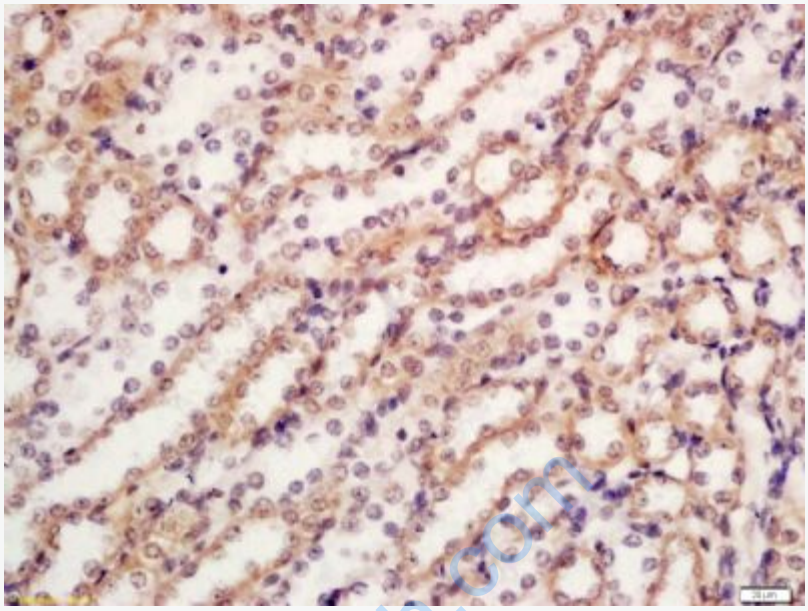
Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Cdc25C) Polyclonal Antibody, Unconjugated (SL9597R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Tissue/cell: mouse kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

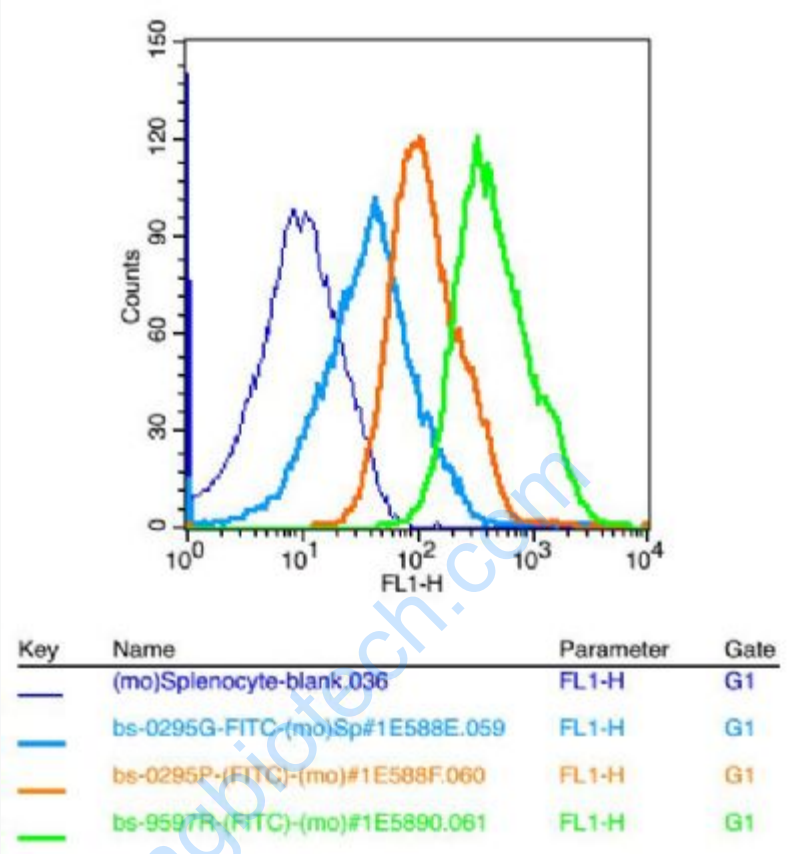
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-Cdc25c Polyclonal Antibody, Unconjugated(SL9597R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: Rat kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-Cdc25C Polyclonal Antibody, Unconjugated(SL9597R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: mouse splenocytes(blue)

Isotype Control Antibody: Rabbit IgG(orange) ; Secondary Antibody: Goat anti-rabbit IgG-FITC(white blue), Dilution: 1:100 in 1 X PBS containing 0.5% BSA ; Primary Antibody Dilution: 1μl in 100 μL1X PBS containing 0.5% BSA(green).