

**Anti-Cdc25C Picoband Antibody**  
**Catalog # ABO12535****Specification**

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**Anti-Cdc25C Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P30307</a>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for M-phase inducer phosphatase 3(CDC25C) detection. Tested with WB in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-Cdc25C Picoband Antibody - Additional Information**

**Gene ID** 995

**Other Names**

M-phase inducer phosphatase 3, 3.1.3.48, Dual specificity phosphatase Cdc25C, CDC25C

**Calculated MW**

53365 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Nucleus .

**Protein Name**

M-phase inducer phosphatase 3

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human Cdc25C (435-473aa MHHQDHKTELLRCRSQSKVQEGERQLREQIALLVKDMSP), different from the related mouse sequence by ten amino acids.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins.

Storage

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

## **Anti-Cdc25C Picoband Antibody - Protein Information**

**Name** CDC25C

### **Function**

Functions as a dosage-dependent inducer in mitotic control. Tyrosine protein phosphatase required for progression of the cell cycle (PubMed:[8119945](http://www.uniprot.org/citations/8119945)). When phosphorylated, highly effective in activating G2 cells into prophase (PubMed:[8119945](http://www.uniprot.org/citations/8119945)). Directly dephosphorylates CDK1 and activates its kinase activity (PubMed:[8119945](http://www.uniprot.org/citations/8119945)).

### **Cellular Location**

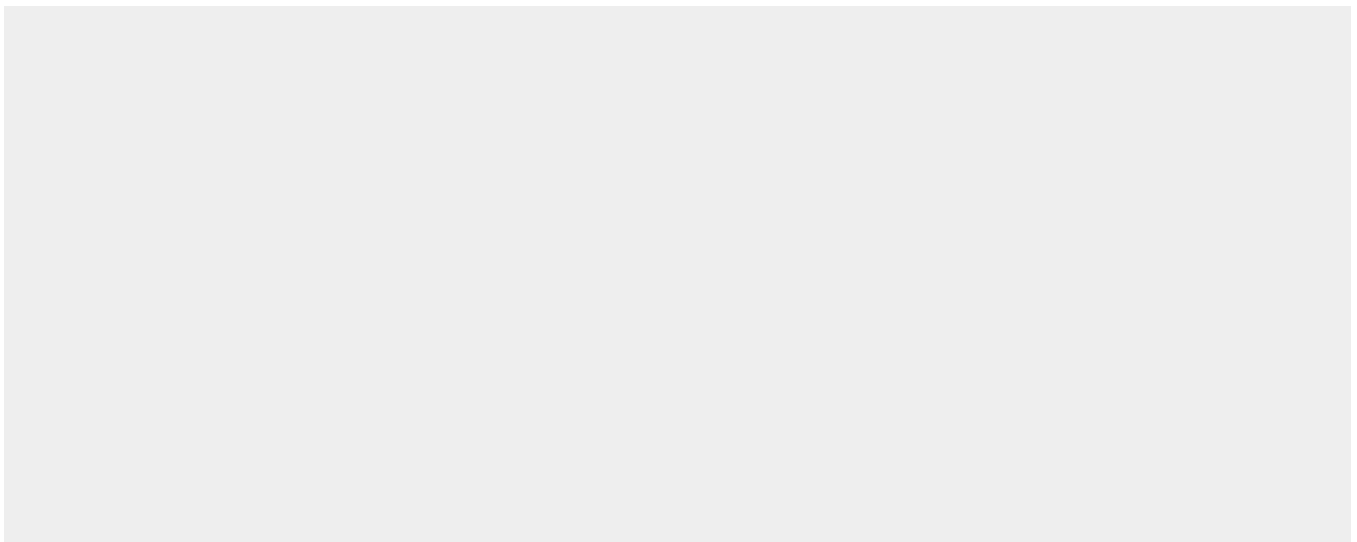
Nucleus

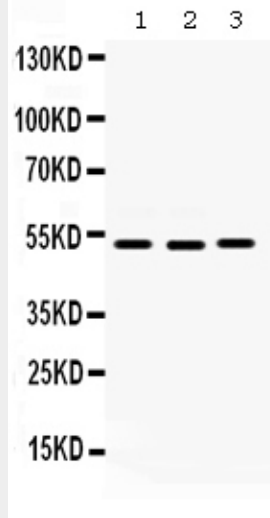
## **Anti-Cdc25C Picoband Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **Anti-Cdc25C Picoband Antibody - Images**





Western blot analysis of Cdc25C expression in HELA whole cell lysates (lane 1), SW620 whole cell lysates (lane 2) and MCF-7 whole cell lysates (lane 3). Cdc25C at 53KD was detected using rabbit anti- Cdc25C Antigen Affinity purified polyclonal antibody (Catalog # ABO12535) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

#### **Anti-Cdc25C Picoband Antibody - Background**

M-phase inducer phosphatase 3 is an enzyme that in humans is encoded by the CDC25C gene. 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 (CDK1) and triggers entry into mitosis. Also, it is 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.