

## Product datasheet for **AP54834SU-N**

### CDC25C pSer198 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	<b>ELISA.</b> <b>Western Blot.</b> <b>Immunohistochemistry.</b>
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic phosphopeptides derived from internal domain of Human CDC25C protein.
Specificity:	This antibody reacts with 53 kDa CDC25C with a phosphorylated Serine 198. Cross-reacts with the isoforms 2; 4 and 5 of Human CDC25C protein.
Formulation:	State: Serum State: Lyophilized serum Preservative: None
Reconstitution Method:	Restore in distilled water.
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at -20°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	cell division cycle 25C
Database Link:	<a href="#">Entrez Gene 995 Human P30307</a>



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**Background:**

Cyclin-dependent kinases can be activated by CDC25, which removes inhibitory phosphates from tyrosine and threonine residues. At least three CDC25 genes (CDC25A, CDC25B, and CDC25C) have been identified in humans. Whereas CDC25A and CDC25B are expressed throughout the cell cycle, with peak expression in G1 for CDC25A and in both G1-S-phase and G2 for CDC25B, CDC25C is predominantly expressed in G2.

Cdc25C is a tyrosine phosphatase and belongs to the Cdc25 phosphatase family. It has been highly conserved during evolution and it plays a key role in the regulation of cell division. It directs dephosphorylation of cyclin B-bound CDC2 and triggers entry into mitosis. It is also thought to suppress p53-induced growth arrest. Cdc25C is mainly expressed in G2 phase. Multiple alternatively spliced transcript variants of this gene have been described, however, the full-length nature of many of them is not known.

**Synonyms:**

CDC25