

DESCRIPTION

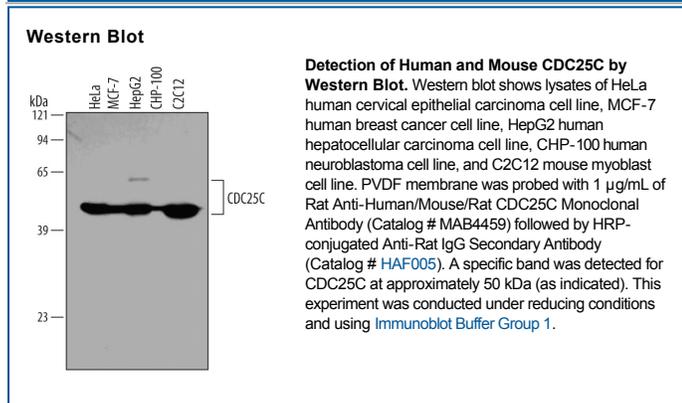
| | |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Species Reactivity | Human/Mouse/Rat |
| Specificity | Detects human, mouse and rat CDC25C in Western blots. In Western blots, no cross-reactivity with recombinant human (rh) CDC25A or rhCDC25B is observed. |
| Source | Monoclonal Rat IgG ₁ Clone # 461908 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | <i>E. coli</i> -derived recombinant human CDC25C Ser2-Pro473 Accession # P30307 |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

| | Recommended Concentration | Sample |
|---------------------|---------------------------|-----------|
| Western Blot | 1 µg/mL | See Below |

DATA



PREPARATION AND STORAGE

| | |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reconstitution | Reconstitute at 0.5 mg/mL in sterile PBS. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

Cell Division Cycle 25C (CDC25C) is a dual serine/threonine and tyrosine phosphatase. There are four splice variants with molecular weights of 46, 47, 49, and 53 kDa. The smaller variants lack key regulatory sites and their upregulation has been observed in prostate cancer. CDC25C regulates the G2/M cell cycle transition by dephosphorylating proteins such as Chk1. Its cellular distribution is controlled by phosphorylations that enhance 14-3-3 binding, block nuclear localization, and inhibit enzymatic activity.