

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
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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