

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse and rat CDC14A in Western blots. In Western blots, this antibody does not cross-react with recombinant human PTEN. Reactivity with CDC14B is not known.
Source	Monoclonal Mouse IgG ₁ Clone # 472508
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human CDC14A Met15-Gly366 Accession # Q9UNH5
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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 14 (CDC14) is a dual tyrosine and serine/threonine phosphatase. There are two CDC14 proteins, CDC14A with a molecular weight of 70 kDa, and CDC14B with a molecular weight of 53 kDa. CDC14A is primarily associated with the nucleolus, bound to Cfi1/Net1 during cell cycle interphase. During anaphase and telophase, CDC14 redistributes to the nucleoplasm and cytoplasm, where it plays a role in segregating and separating sister chromatids. Mutations that alter CDC14 function cause uneven distribution of chromosomes in dividing cells.

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