

DESCRIPTION

Species Reactivity	Human
Specificity	Detects Human Phospho-CEP250/CNAP1 in direct ELISA
Source	Monoclonal Rabbit IgG Clone # 2739C
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Phosphopeptide containing the human CEP250/CNAP1 S2421 site Accession # Q9BV73
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

CEP250 (also known as CNAP1) is a large centrosome-associated protein that plays a crucial role in centrosome duplication and organization during cell division. Centrosomes are organelles that play an essential role in cell division, cell polarity, and intracellular transport. In most animal cells, centrosomes consist of a pair of centrioles surrounded by pericentriolar material (PCM). CEP250/CNAP1 is a critical component of the PCM and is required for centrosome duplication and maturation. It forms a bridge between the centrioles and PCM and recruits other PCM components to the centrosome. Phosphorylation of CEP250/CNAP1 may regulate association/dissociation from centrosome. During M phase of mitosis, it is phosphorylated by NEK2, which may trigger the dissociation from the mitotic centrosome. This antibody detects CEP250/CNAP1 phosphorylated at Ser2421.

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