

DESCRIPTION

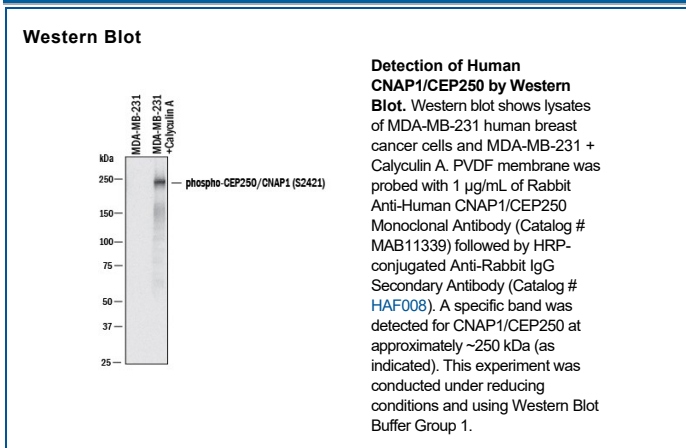
Species Reactivity	Human
Specificity	Detects Human Phospho-CEP250/CNAP1 in direct ELISA
Source	Recombinant Monoclonal Rabbit IgG Clone # 2739C
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Phosphopeptide containing the human CEP250/CNAP1 S2421 site Accession # Q9BV73
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

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	MDA-MB-231 human breast cancer cells and MDA-MB-231 + Calyculin A

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. 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

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 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.