

Human Phospho-CEP250/CNAP1 (S2421) Antibody

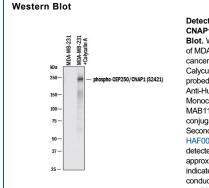
Recombinant Monoclonal Rabbit IgG Clone # 2739C Catalog Number: MAB11339

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.	

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.

Trade treat opinion and an action in the state of the sta			
	Recommended Concentration	Sample	
Western Blot	1 μg/mL	MDA-MB-231 human breast cancer cells and MDA-MB- 231 + Calyculin A	

DATA



Detection of Human CNAP1/CEP250 by Western Blot. Western blot shows lysates of MDA-MB-231 human breast cancer cells and MDA-MB-231 + Calvculin A. PVDF membrane was probed with 1 ug/mL of Rabbit Anti-Human CNAP1/CEP250 Monoclonal Antibody (Catalog # MAB11339) followed by HRPconjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for CNAP1/CEP250 at approximately ~250 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

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.

Rev. 7/20/2023 Page 1 of 1

