biotechne

Human Phospho-CROCC (S1476) Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2734A Catalog Number: MAB11335

RDsystems

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects Human Phospho-CROCC in direct ELISA
Source	Recombinant Monoclonal Rabbit IgG Clone # 2734A
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Phosphopeptide containing the human CROCC S site 1476 Accession # Q5TZA2
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	
Immunocytochemistry	3-15 μg/mL	Immersion fixed HEL 92.1.7 Human Erythroleukemic Cells and Daudi Human Burkitt's Lymphoma Cells (Both Positive)	

DATA



Detection of Human CROCC by Western Blot. Western blot shows lysates of MDA-MB-231 human breast cancer cells and MDA-MB-231 + Calyculin A. PVDF membrane was probed with 1 ug/mL of Rabbit Anti-Human **CROCC** Monoclonal Antibody (Catalog # MAB11335) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for CROCC at approximately ~228 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

Immunocytochemistry



Hel 92.1.7 (Positive) cells Daudi (Positive) cells

Detection of CROCC in HEL 92.1.7 and Daudi cells (both positive). CROCC was detected in immersion fixed HEL 92.1.7 Human Erythroleukemic Cells and Daudi Human Burkitt's Lymphoma Cells (Both Positive) using Rabbit Anti-Human CROCC Monoclonal Antibody (Catalog # MAB11335) at 3 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Nonadherent Cells.

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

Human CROCC (also known as Rootletin) is a large coiled-coil protein that is primarily expressed in ciliated cells and plays a critical role in the organization and maintenance of the ciliary structure. Cilia are hair-like structures that protrude from the surface of many eukaryotic cells and are involved in a variety of cellular functions, including motility and signaling.CROCC is essential for forming and maintaining the rootlet and has been shown to interact with other centrosomal and ciliary proteins, such as PCM-1, C-Nap1, and CEP68. CROCC has also been shown to interact with microtubules, suggesting that it may play a role in regulating microtubule dynamics. CROCC can be Phosphorylated by NEK2 which may regulate its association with centrosomes. This antibody detects CROCC phosphorylated at Ser1476. Two alternatively spliced isoforms have been reported.

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