

## Rabbit Anti-CROCC/PE Conjugated antibody

SL14066R-PE

<b>Product Name</b>	Anti-CROCC/PE
<b>Chinese Name</b>	PE 标记的睫状神经根卷曲螺旋蛋白抗体
<b>Alias</b>	ciliary rootlet coiled coil; Ciliary rootlet coiled-coil protein; Crocc; CROCC_HUMAN; KIAA0445; Rootletin.
<b>Research Area</b>	Tumour Cell biology Cell type markers
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	(predicted:Human,Mouse,Rat,Pig,Cow,Horse) ICC/IF=1:50-200,IF=1:100-500
<b>Applications</b>	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight</b>	228kDa
<b>Form</b>	Lyophilized or Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from human CROCC
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Storage Buffer</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>Storage</b>	
<b>Product Detail</b>	<b>background:</b> CROCC is a 2017 amino acid protein that forms centriole-associated fibrous structures and is an essential component of the ciliary rootlet. Localized to basal bodies and centrosomes in ciliated and nonciliated cells, respectively, Rootletin associates with the proximal ends of basal bodies and, in photoreceptors, functions to form elongated polymers between them. Rootletin is required for centrosome cohesion and, through interaction with C-Nap1 (a centrosomal protein present at the ends of the centrioles), can

regulate the linkage of centrioles to basal bodies. Rootletin exists as a homopolymer whose association with centrosomes can be regulated via phosphorylation by Nek2 (NIMA-related kinase 2). Two isoforms exist due to alternative splicing events.

**Function:**

Major structural component of the ciliary rootlet, a cytoskeletal-like structure in ciliated cells which originates from the basal body at the proximal end of a cilium and extends proximally toward the cell nucleus. Contributes to centrosome cohesion before mitosis.

**Post-translational modifications:**

Phosphorylated by NEK2 which may regulate its association with centrosomes. Phosphorylated upon DNA damage, probably by ATM or ATR.

**DISEASE:**

Cytoplasm; cytoskeleton; centrosome; centriole. In ciliated cells, associated with ciliary rootlets. In non-ciliated cells, localized between, around and at the proximal ends of the centrioles. Dissociates from the centrioles at the onset of mitosis and reassociates with them at anaphase.

**Similarity:**

Belongs to the rootletin family.

**Database links:**

[Entrez Gene: 9696](#) Human

[SwissProt: Q5TZA2](#) Human

[Unigene: 309403](#) Human

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.