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Anti-CRCP Rabbit Monoclonal Antibody

Catalog # ABO16521

Product Information

Application	WB, IHC, IF, ICC, IP
Primary Accession	O75575
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-CRCP Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP applications. This antibody reacts with Human, Mouse, Rat.

Additional Information

Gene ID	27297
Other Names	DNA-directed RNA polymerase III subunit RPC9, RNA polymerase III subunit C9, Calcitonin gene-related peptide-receptor component protein, CGRP-RCP, CGRP-receptor component protein, CGRPRCP, HsC17, CRCP (HGNC:17888)
Calculated MW	16871
Application Details	WB 1:500-1:2000 IHC 1:50-1:200 ICC/IF 1:50-1:200 IP 1:50
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: 30C57
Immunogen	A synthesized peptide derived from human CRCP
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	CRCP (HGNC:17888)
Function	DNA-dependent RNA polymerase catalyzes the transcription of DNA into

RNA using the four ribonucleoside triphosphates as substrates (PubMed:20413673, PubMed:33558764, PubMed:34675218). Specific peripheric component of RNA polymerase III (Pol III) which synthesizes small non-coding RNAs including 5S rRNA, snRNAs, tRNAs and miRNAs from at least 500 distinct genomic loci. With POLR3H/RPC8 forms a mobile stalk that protrudes from Pol III core and functions primarily in transcription initiation (By similarity) (PubMed:20413673, PubMed:33558764, PubMed:33558766, PubMed:34675218). Pol III plays a key role in sensing and limiting infection by intracellular bacteria and DNA viruses. Acts as nuclear and cytosolic DNA sensor involved in innate immune response. Can sense non-self dsDNA that serves as template for transcription into dsRNA. The non-self RNA polymerase III transcripts, such as Epstein-Barr virus-encoded RNAs (EBERs) induce type I interferon and NF-kappa-B through the RIG-I pathway (PubMed:19609254, PubMed:19631370).

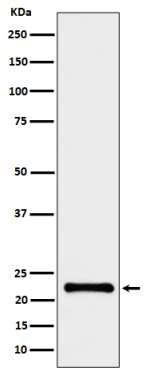
Cellular Location

Nucleus. Cell membrane {ECO:0000250|UniProtKB:O35427}; Peripheral membrane protein {ECO:0000250|UniProtKB:O35427}; Cytoplasmic side {ECO:0000250|UniProtKB:O35427}

Tissue Location

Ubiquitous. Most prevalent in testis.

Images



Western blot analysis of CRCP expression in HeLa cell lysate.

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