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KD-Validated Anti-CGRP Receptor Component Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1345

Product Information

Application	WB, FC, ICC
Primary Accession	O75575
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	25GB3025
Calculated MW	16871
Gene Name	CRCP
Aliases	CRCP; CGRP Receptor Component; CGRP-RCP; Calcitonin Gene-Related Peptide-Receptor Component Protein; POLR3I; RCP9; RCP; C17; DNA-Directed RNA Polymerase III Subunit RPC9; CGRP-Receptor Component Protein; RNA Polymerase III Subunit C9; CGRPRCP; POLR3J; HsC17; RPC9
Immunogen	A synthesized peptide derived from human CRCP

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)

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.

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