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KD-Validated Anti-CGRP Receptor Component Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1345

Specification

KD-Validated Anti-CGRP Receptor Component Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	O75575
Reactivity	**Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 17 kDa; observed, 22 kDa KDa**
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**

KD-Validated Anti-CGRP Receptor Component Rabbit Monoclonal Antibody - 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)

KD-Validated Anti-CGRP Receptor Component Rabbit Monoclonal Antibody - 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}

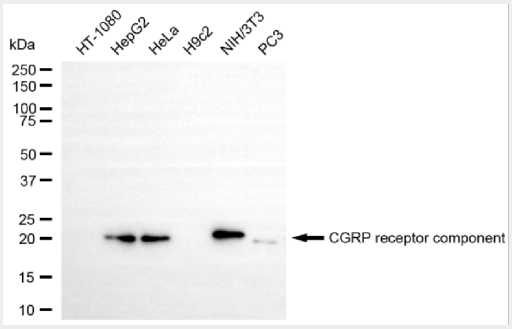
Tissue Location
Ubiquitous. Most prevalent in testis.

KD-Validated Anti-CGRP Receptor Component Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-CGRP Receptor Component Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-CGRP receptor component antibody (Cat#AGI1345). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-CGRP receptor component antibody (Cat#AGI1345, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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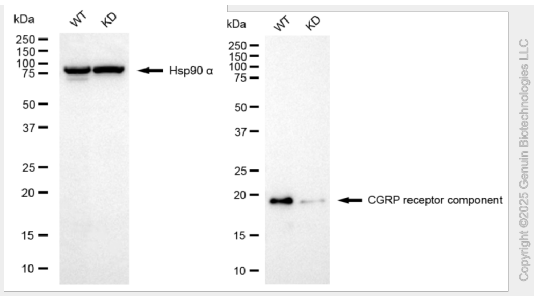
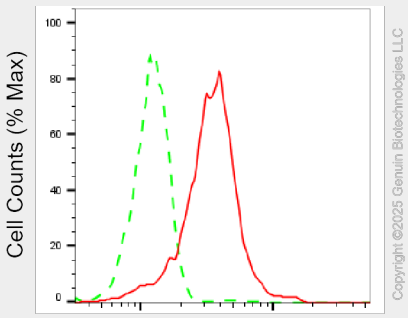
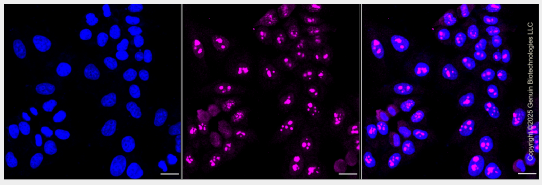


Western blotting analysis using anti-CGRP receptor component antibody (Cat#AGI1345). CGRP receptor component expression in wild-type (WT) and CGRP receptor component (CRCP) knockdown (KD) 293T cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-CGRP receptor component antibody (Cat#AGI1345, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



CGRP receptor component-Alexa Fluor® 647

Flow cytometric analysis of CGRP receptor component expression in HepG2 cells using anti-CGRP receptor component antibody (Cat#AGI1345, 1:2,000). Green, isotype control; red, CGRP receptor component.



Immunocytochemical staining of HepG2 cells with CGRP receptor component antibody (Cat#AGI1345, 1:1,000). Nuclei were stained blue with DAPI; CGRP receptor component was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20 µm.