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Datasheet for 600-401-AN7

CRMP1 Antibody

Overview

Description:	Anti-CRMP1 (RABBIT) Antibody - 600-401-AN7
Item No.:	600-401-AN7
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	Collapsin-response mediator proteins (CRMPs) are highly expressed in the developing brain where they play major roles in axonal outgrowth, neurite differentiation, and apoptosis. Their continued expression in areas of high synaptic remodeling such as the cerebellum, hippocampus, and the olfactory system suggests that these proteins may also be involved in adult brain plasticity. CRMP-1 was initially identified as a dihydro-pyrimidinase expressed exclusively in brain; later studies have shown that it is involved with neurotrophin (NT) 3-induced neurite formation and outgrowth. CRMP-1 localization switches from axonal to somatodendritic when neurons reach functional maturity, suggesting that it is involved in early neuronal differentiation as well as in later processes related to the survival or death of the newly generated neurons.
Synonyms:	CRMP1 Antibody, DRP1, DRP-1, CRMP-1, DPYSL1, ULIP-3, ULIP3, Dihydropyrimidinase-related protein 1, Collapsin response mediator protein 1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CRMP1
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-CRMP1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid synthetic peptide from near the internal region of human CRMP1.
Purity/Specificity:	Anti-CRMP1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with CRMP1 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q14194 • GeneID - 1400 • NCBI - AAH07613

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-CRMP1 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 62 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:40,000
IF:	20 µg/mL
IHC:	10 µg/mL
WB:	1-4 µg/mL

Formulation

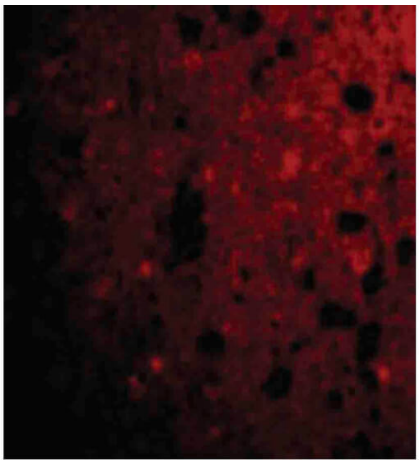
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

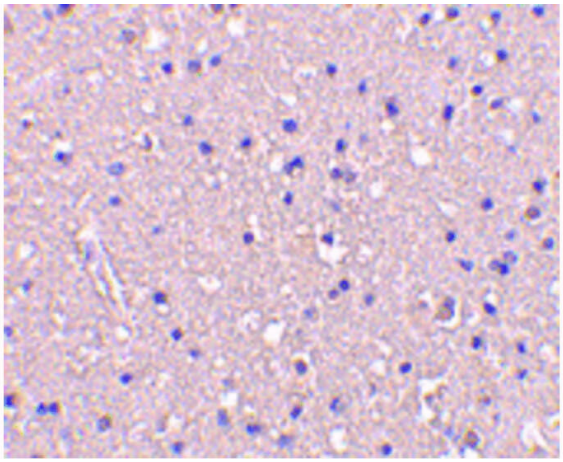
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

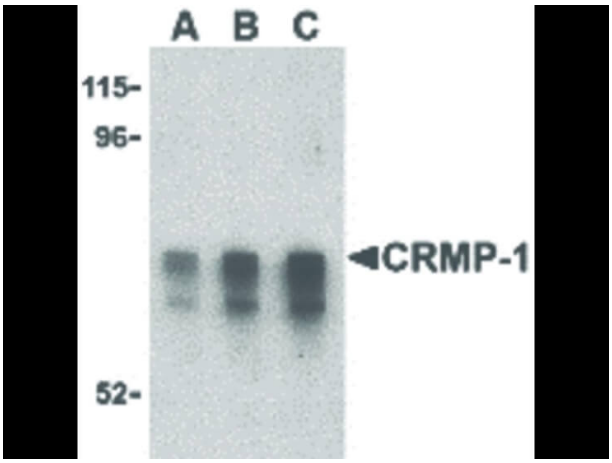
Images



Immunofluorescence Microscopy
Immunofluorescence Microscopy of CRMP1 antibody. Cell Type: human brain cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: CRMP1 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: CRMP1 is located in the cytoplam and the cytoskeleton. Staining: CRMP1 as red fluorescent signal.



Immunohistochemistry
Immunohistochemistry of CRMP1 antibody. Tissue: human brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: CRMP1 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: CRMP1 is located in the cytoplam and the cytoskeleton. Staining: CRMP1 is stained with hematoxylin purple nuclear counterstain.



Western Blot

Western Blot of CRMP1 antibody in Caco-2 cell lysate. Lane A: CRMP1 antibody at 1 µg/mL. Lane B: CRMP1 antibody at 2 µg/mL. Lane C: CRMP1 antibody at 4 µg/mL. Load: 35 µg per lane. Primary antibody: CRMP1 antibody at designated concentrations for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 62 kDa, 70 kDa for CRMP1. Other band(s): CRMP1 splice variants and isoforms.

Disclaimer

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