

Datasheet for 600-401-AN9**CRTC2 Antibody****Overview**

Description:	Anti-CRTC2 (RABBIT) Antibody - 600-401-AN9
Item No.:	600-401-AN9
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	CRTC2, also known as TORC2 (Transducers Of Regulated cAMP Response Element-Binding (CREB)) 2 and the related protein CRTC1 are potent CREB coactivators that are exported from the nucleus in a CRM1-dependent manner via phosphorylation-dependent interactions. Studies suggest that their phosphorylation and nuclear/cytoplasmic shuttling play an important role in the regulation of gluconeogenesis by cAMP. CRTC2 is present in both B and T-lymphocytes and abundantly expressed in the thymus. Its activity is important in regulating the expression of genes involved in cellular energy metabolism while CRTC1 is essential for energy balance and fertility.
Synonyms:	CRTC2 Antibody, TORC2, TORC-2, TORC2, CREB-regulated transcription coactivator 2, Transducer of regulated cAMP response element-binding protein 2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CRTC2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-CRTC2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid peptide near the C-terminus of human CRTC2.

Purity/Specificity: Anti-CRTC2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Multiple isoforms of CRTC2 are known to exist. CRTC2 antibody is predicted to not cross-react with CRTC1.

Relevant Links:

- [UniProtKB - Q53ET0](#)
- [GeneID - 200186](#)
- [NCBI - NP_859066](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-CRTC2 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 73 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: 1:10,000-1:20,000

IF: User Optimized

IHC: User Optimized

WB: 1-2 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 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

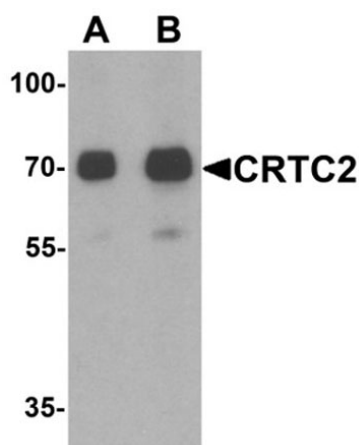
Shipping & Handling

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:

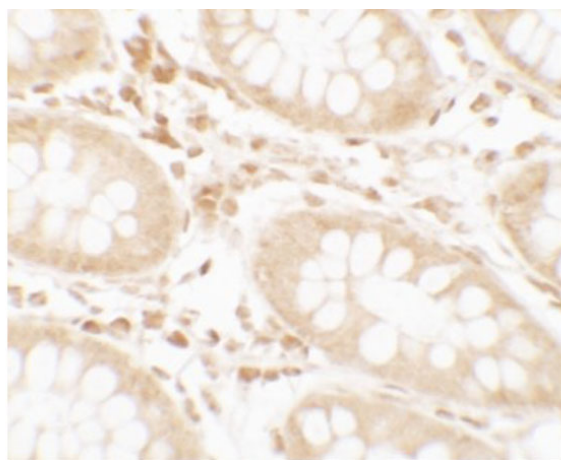
Expiration date is one (1) year from date of receipt.

Images**Western Blot**

Western blot of CRTC2.

Load: human small intestine tissue lysate.

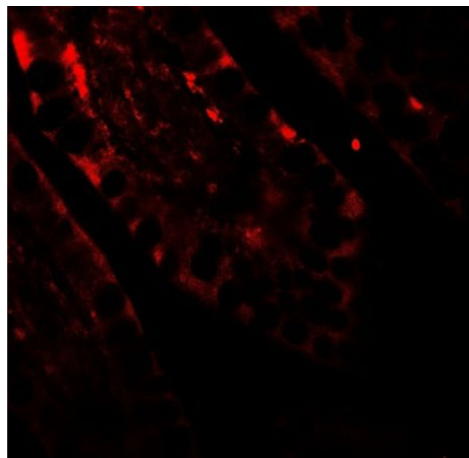
Primary Antibody: CRTC2 antibody at (A) 0.5 and (B) 1 $\mu\text{g/mL}$.

**Immunohistochemistry**

Immunohistochemistry of CRTC2.

Tissue: human small intestine tissue.

Primary Antibody: CRTC2 antibody at 2.5 $\mu\text{g/mL}$.

**Immunofluorescence Microscopy**

Immunofluorescence of CRTC2.

Tissue: human small intestine tissue.

Primary Antibody: CRTC2 antibody at 20 µg/mL.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.