

Datasheet for 200-901-BA3**ENC-1 Antibody****Overview**

Description:	Anti-ENC-1 (CHICKEN) Antibody - 200-901-BA3
Item No.:	200-901-BA3
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Chicken

Product Details

Background:	The ectoderm-neural cortex-1 (ENC-1) protein is an early and highly specific marker of neural induction in vertebrates. It is a kelch family related protein that functions as an actin-binding protein and has been suggested to be involved in the organization of the actin cytoskeleton during neural fate specification and development of the nervous system. ENC-1 has also been shown to be required for adipocyte differentiation when cytoskeletal reorganization and cell shape change from fibroblastic preadipocytes to spherical adipocytes occur.
Synonyms:	ENC-1 Antibody, NRPB, CCL28, ENC-1, PIG10, KLHL35, KLHL37, TP53I10, NRPB, Ectoderm-neural cortex protein 1, Kelch-like protein 37
Host Species:	Chicken
Clonality:	Polyclonal
Format:	IgY

Target Details

Gene Name:	ENC1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-ENC-1 antibody was prepared from chicken egg fractions by repeated immunizations with a 13 amino acid synthetic peptide near the internal region of human ENC-1.

Purity/Specificity: Anti-ENC-1 Antibody is an IgY fraction that has been affinity purified by immunoaffinity purification. Cross reactivity with ENC-1 from other sources has not been determined.

Relevant Links:

- [UniProtKB - O14682](#)
- [GeneID - 8507](#)
- [NCBI - O14682](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-ENC-1 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 66 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

IF: 20 µg/mL

IHC: 5 µg/mL

WB: 1 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

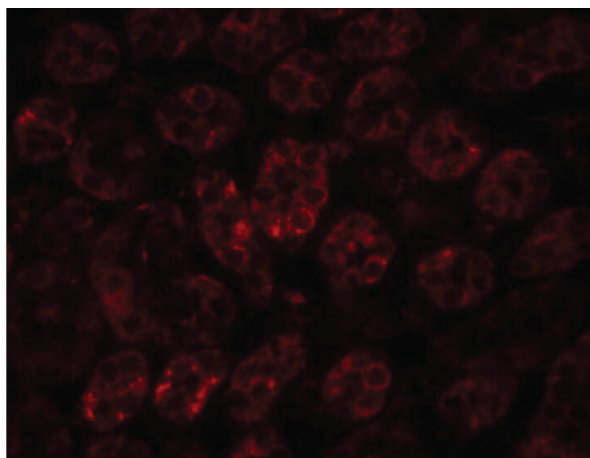
Shipping Condition: Dry Ice

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:

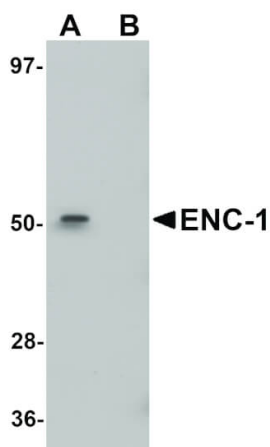
Expiration date is one (1) year from date of receipt.

Images



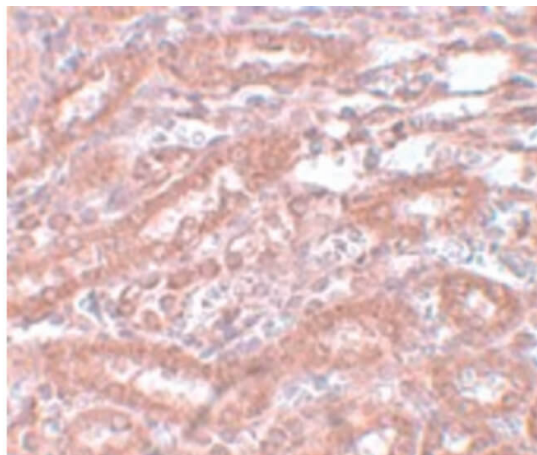
Immunofluorescence Microscopy

Immunofluorescence Microscopy of ENC-1 antibody.
 Tissue: Rat kidney tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: ENC-1 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein chicken secondary antibody at 1:10,000 for 45 min at RT. Localization: ENC-1 is nuclear and cytoplasmic. Staining: ENC-1 as red fluorescent signal.



Western Blot

Western Blot of ENC-1 antibody. Lane 1: Mouse kidney muscle tissue lysate with ENC-1 antibody at 1 µg/mL in the absence of blocking peptide. Lane 2: Mouse kidney muscle tissue lysate with ENC-1 antibody at 1 µg/mL in the presence of blocking peptide. Secondary antibody: Peroxidase chicken secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 66 kDa, 51 kDa for ENC-1. Other band(s): ENC-1 splice variants and isoforms.

**Immunohistochemistry**

Immunohistochemistry of ENC-1 antibody. Tissue: Rat kidney tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: ENC-1 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase chicken secondary antibody at 1:10,000 for 45 min at RT. Localization: ENC-1 is nuclear and cytoplasmic. Staining: ENC-1 as precipitated pink signal with blue counterstain.

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.