

Datasheet for 600-401-CV3**MOX1 Antibody****Overview**

Description:	Anti-MOX1 (RABBIT) Antibody - 600-401-CV3
Item No.:	600-401-CV3
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	MOX1, also known as MEOX1, is a member of a subfamily of non-clustered, diverged, antennapedia-like homeobox-containing genes that is first expressed during gastrulation in the early mesoderm and later in presomitic mesoderm, early somites, dermomyotome and sclerotome. Both MOX1 and the related protein MOX2 are required for proper gene expression in all somitic compartments. MOX1 is an upstream regulator of the transcription factors Bapx1, Tbx18, and Uncx and is thus part of a regulatory circuit that functions in the maintenance of rostrocaudal sclerotome polarity and axial skeleton formation.
Synonyms:	MOX1 Antibody, KFS2, MOX1, Homeobox protein MOX-1, Mesenchyme homeobox 1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	MEOX1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-MOX1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid synthetic peptide near the internal region of human MOX1.

Purity/Specificity: Anti-MOX1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with MOX1 from other sources has not been determined.

Relevant Links:

- [UniProtKB - P50221](#)
- [GeneID - 4222](#)
- [NCBI - NP_004518](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-MOX1 Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 28 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: 20 µg/mL

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

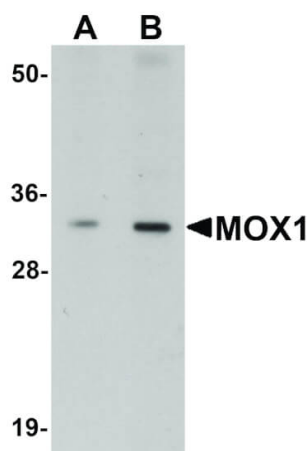
Shipping & Handling

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.

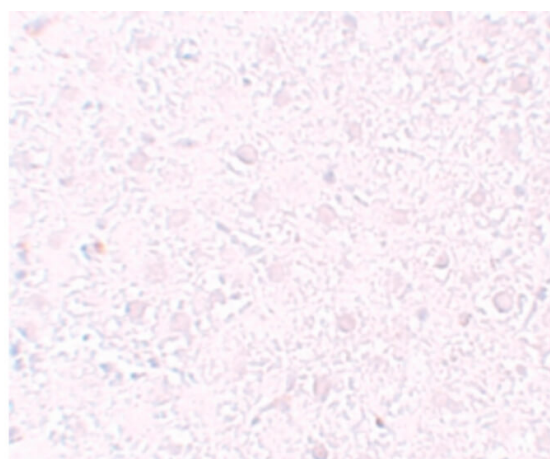
Expiration: Expiration date is one (1) year from date of receipt.

Images



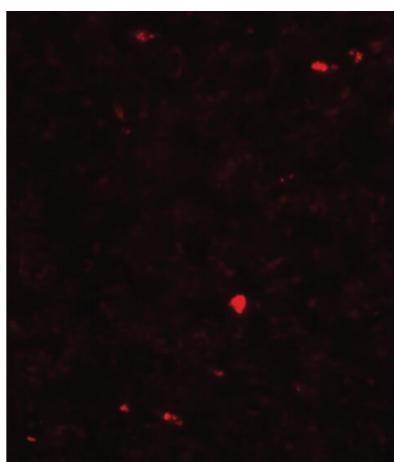
Western Blot

Western Blot of MOX1 antibody. Lane 1: Human liver tissue lysate with MOX1 antibody at 1 µg/mL. Lane 2: Human liver tissue lysate with MOX1 antibody at 2 µg/mL. 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: 28 kDa, 33 kDa for MOX1. Other band(s): MOX1 splice variants and isoforms.



Immunohistochemistry

Immunohistochemistry of MOX1 antibody. Tissue: Rat liver tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: MOX1 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: MOX1 is nuclear and cytoplasmic. Staining: MOX1 as precipitated pink signal with blue nuclear counterstain.



Immunofluorescence Microscopy

Immunofluorescence Microscopy of MOX1 antibody. Tissue: Rat liver tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: MOX1 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: MOX1 is nuclear and cytoplasmic. Staining: MOX1 as red fluorescent signal.

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.