

Datasheet for 600-401-GT3S**Orf2 Antibody****Overview**

Description:	Anti-Orf2 (RABBIT) Antibody - 600-401-GT3S
Item No.:	600-401-GT3S
Size:	25 µL
Applications:	ELISA, WB
Reactivity:	Mouse
Host Species:	Rabbit

Product Details

Background:	Anti-Orf2 Antibody was designed, produced, and validated as part of the Joy Cappel Young Investigator Award (JCYIA). The multi-functional nuclear protein ORF2p is involved in reverse transcriptase and endonuclease processes. ORF2 elements are epigenetically silenced throughout embryonic development and it is suggested that mutations of L1 would result in detrimental de novo insertions into the genome, negatively affecting gene expression. L1 elements are critical components in the mammalian genome, and much is still not known regarding these proteins. Studies implicate that line-1 is activated in fetal oocytes and L1ORF2p may contribute to the eradication or selection of the oocytes.
Synonyms:	Rabbit Anti-Orf2 Antibody, LINE-1 retrotransposable element ORF2 protein, Endonuclease reverse transcriptase, Line1 protein, Orf2p, Retrovirus-related Pol polyprotein LINE-1, Long interspersed element-1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Pol
Reactivity:	Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Affinity purified Anti-ORF2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide near the c-terminus of mouse ORF2 protein.
Purity/Specificity:	Anti-Orf2 is directed against mouse ORF2 near a c-terminus position. This product is an affinity purified antibody produced by immunoaffinity chromatography using peptide coupled to agarose beads. A BLAST analysis was used to suggest reactivity with this protein from human and feline based on 100% homology for the immunogen sequence.
Relevant Links:	• NCBI - AAC53542.1 • GENEID - 2731767 • UniProtKB - P11369

Application Details

Tested Applications:	ELISA, WB
Application Note:	This affinity purified antibody has been tested for use in ELISA and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band ~150 kDa in size corresponding to Orf2 by western blotting in the liver cell lysates or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:50,000-1:150,000
WB:	1.0 ug/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.07 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

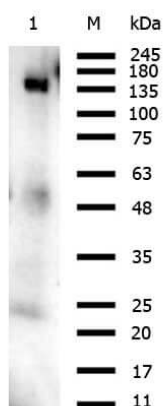
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.

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

Images



Western Blot

Western Blot of Rabbit Anti-Orf2 antibody. Lane 1: Mouse liver whole cell lysate (W10-000-T020). Load: 10 µg per lane. Primary antibody: Orf2 antibody at 1.0 µg/mL for overnight at 4°C. Secondary antibody: Gt-a-Rb HRP (p/n 611-103-122) at 1:40,000 for 30 min at RT. Block: MB-070 overnight at 4°C. Predicted/Observed size: 150 kDa for Orf2.

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.