

Datasheet for 600-401-X79**AFAP1L2 Antibody****Overview**

Description:	Anti-AFAP1L2 (RABBIT) Antibody - 600-401-X79
Item No.:	600-401-X79
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	AFAP1L2, also known as XB130, is structurally similar to actin-filament-associated protein (AFAP), containing several SH2- and SH3-binding motifs, two pleckstrin homology domains, a coiled-coil region, and many potential phosphorylation sites. It interacts with and is phosphorylated by c-Src tyrosine kinase. Suppression of AFAP1L2 via siRNA reduced Src activity, IL-8 production, EGF-induced phosphorylation of Akt and GSK3beta, and altered cell cycles in human lung epithelial cells suggesting that AFAP1L2 plays a role as an adaptor in the regulation of Src signal transduction and multiple cellular functions. Recent experiments have shown that AFAP1L2 is highly expressed in thyroid and is the substrate RET/PTC kinase, a thyroid-specific kinase that plays a pathogenic role in papillary thyroid cancer. Down-regulation of AFAP1L2 in these cancer cells reduced Akt activity, inhibiting cell-cycle progression and cancer cell survival in suspension, indicating that AFAP1L2 may be a valuable target in thyroid cancer therapy. At least four isoforms of AFAP1L2 are known to exist.
Synonyms:	AFAP1L2 Antibody, XB130, KIAA1914, CTB-1144G6.4, XB130, Actin filament-associated protein 1-like 2, AFAP1-like protein 2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	AFAP1L2
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-AFAP1L2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide near the C-terminus of human AFAP1L2.
Purity/Specificity:	Anti-AFAP1L2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with AFAP1L2 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q8N4X5 • GeneID - 84632 • NCBI - NP_001001936

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-AFAP1L2 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 91 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
IHC:	2.5 µg/mL
WB:	1 - 2 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

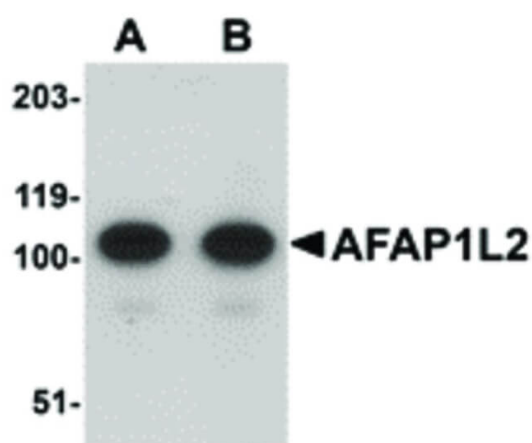
Shipping & Handling

Shipping Condition:	Dry Ice
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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.

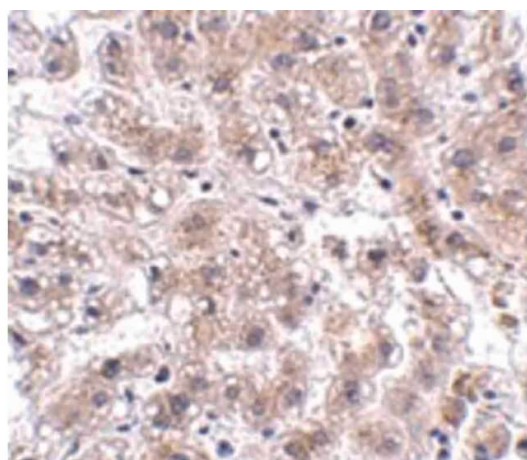
Expiration: Expiration date is one (1) year from date of receipt.

Images



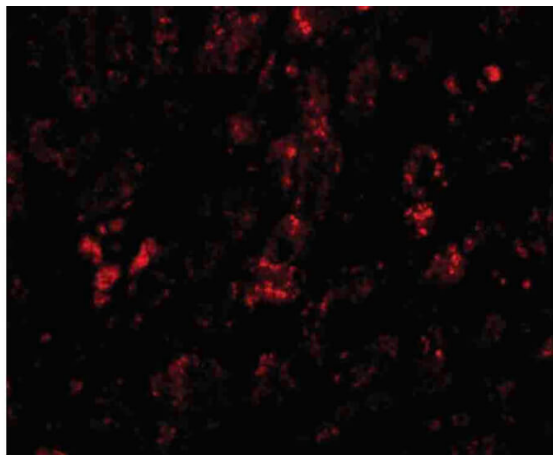
Western Blot

Western Blot of AFAP1L2 antibody. Lane 1: Mouse liver tissue lysate with AFAP1L2 antibody at 1 µg/mL. Lane 2: Mouse liver tissue lysate with AFAP1L2 antibody at 2 µg/mL. Load: 35 µg per lane. 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: 91 kDa, 100 kDa for AFAP1L2. Other band(s): AFAP1L2 splice variants and isoforms.



Immunohistochemistry

Immunohistochemistry of AFAP1L2 antibody. Tissue: Human liver tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: AFAP1L2 antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: AFAP1L2 is cytoplasmic. Staining: AFAP1L2 as precipitated brown signal with blue nuclear counterstain.

**Immunofluorescence Microscopy**

Immunofluorescence Microscopy of AFAP1L2 antibody.
Tissue: human liver tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: AFAP1L2 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: AFAP1L2 is cytoplasmic. Staining: AFAP1L2 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.