

Datasheet for 600-401-BF7**FN14 Antibody****Overview**

Description:	Anti-FN14 (RABBIT) Antibody - 600-401-BF7
Item No.:	600-401-BF7
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	TWEAK is a TNF family member produced by IFN-gamma-stimulated monocytes and induces multiple cell death pathways including caspase-dependent apoptosis and cathepsin B-dependent necrosis. These pathways are mediated by the binding of TWEAK by fibroblast growth factor 14 (Fn14), a member of the TNF receptor superfamily. Yeast two-hybrid experiments have shown that FN14 will bind to the TNFR-associated factors TRAF1, TRAF2, TRAF3, and TRAF5, suggesting that the signaling pathway induced by TWEAK may be mediated by one or more of these adaptor molecules. Fn14 is induced during liver regeneration and is highly expressed in hepatocellular carcinomas. In addition, TWEAK induces liver progenitor cell proliferation, suggesting Fn14 may play a role in hepatocyte growth control and liver neoplasia.
Synonyms:	Fn14 Antibody, FN14, CD266, TWEAKR, FN14, Tumor necrosis factor receptor superfamily member 12A, Fibroblast growth factor-inducible immediate-early response protein 14, FGF-inducible 14
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TNFRSF12A
Reactivity:	Human
Immunogen Type:	Native Protein

Immunogen:	Anti-Fn14 antibody was prepared from whole rabbit serum produced by repeated immunizations with a human IgG1 Fc-tagged Fn14 protein.
Purity/Specificity:	Anti-Fn14 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Fn14 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9NP84 • GeneID - 51330 • NCBI - NP_057723

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-Fn14 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 14 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:	1:20,000 - 1:40,000
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	2-4 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

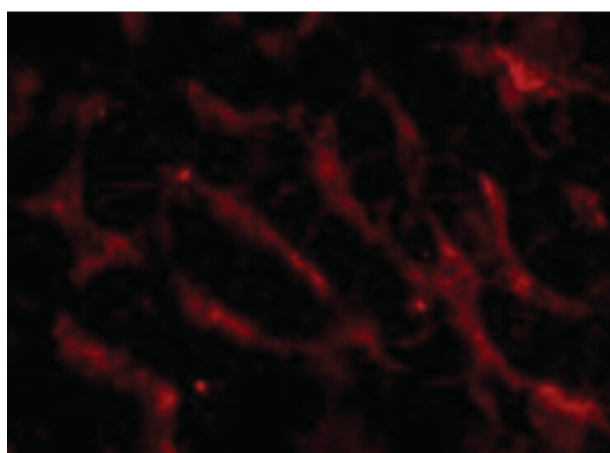
Shipping & Handling

Shipping Condition:	Dry Ice
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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.

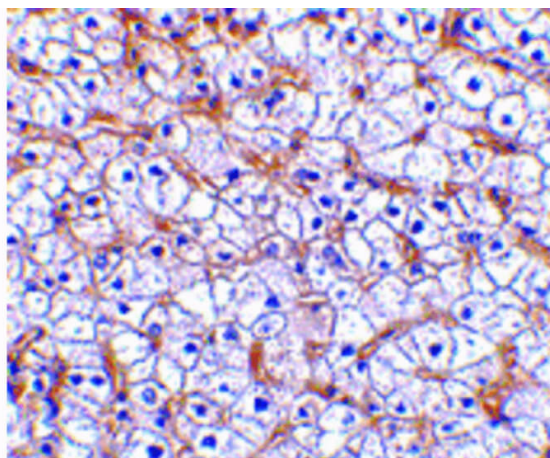
Expiration: Expiration date is one (1) year from date of receipt.

Images



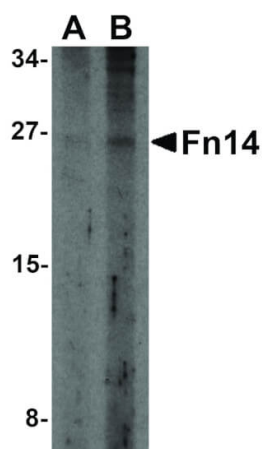
Immunofluorescence Microscopy

Immunofluorescence Microscopy of Fn14 antibody. Cell Type: human liver cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Fn14 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: Fn14 is located in the cell membrane. Staining: Fn14 as red fluorescent signal.



Immunohistochemistry

Immunohistochemistry of Fn14 antibody. Tissue: human liver tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Fn14 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: Fn14 is located in the cell membrane. Staining: Fn14 is stained with hematoxylin purple nuclear counterstain.

**Western Blot**

Western Blot of Fn14 antibody in HepG2 cells. Lane A: Fn14 antibody at 2 $\mu\text{g}/\text{mL}$. Lane B: Fn14 antibody at 4 $\mu\text{g}/\text{mL}$. Load: 35 μg per lane. Primary antibody: Fn14 antibody at designated concentrations for overnight at 4°C. 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: 14 kDa, 25 kDa for Fn14. Other band(s): Fn14 splice variants and isoforms.

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.