Datasheet for 600-401-EJ2

SHISA4 Antibody

Overview

Description:	Anti-SHISA4 (RABBIT) Antibody - 600-401-EJ2
Item No.:	600-401-EJ2
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	SHISA4 plays an essential role in the maturation of presomitic mesoderm cells by individual attenuation of both FGF and WNT signaling. The Shisa family of single-transmembrane proteins is characterized by an N-terminal cysteine-rich domain and a proline-rich C-terminal region. Its founding member, Xenopus Shisa, promotes head development by antagonizing Wnt and FGF signaling. Shisa physically interacted with immature forms of the Wnt receptor Frizzled and the FGF receptor within the ER and inhibited their posttranslational maturation and trafficking to the cell surface. Loss of Shisa function sensitized the neuroectoderm to Wnt signaling and suppressed head formation during gastrulation.
Synonyms:	SHISA4 Antibody, TMEM58, C1orf40, TMEM58, UNQ583/PRO1153, Protein shisa-4, Transmembrane protein 58
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SHISA4
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-SHISA4 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid peptide near the internal region of human SHISA4.

Purity/Specificity:	Anti-SHISA4 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. SHISA4 antibody is predicted to not cross-react with other SHISA protein family members.
Relevant Links:	• UniProtKB - Q96DD7 • GeneID - 149345 • NCBI - NP_937792

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-SHISA4 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 22 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:	User Optimized
IHC:	User Optimized
WB:	1 µg/mL

Formulation

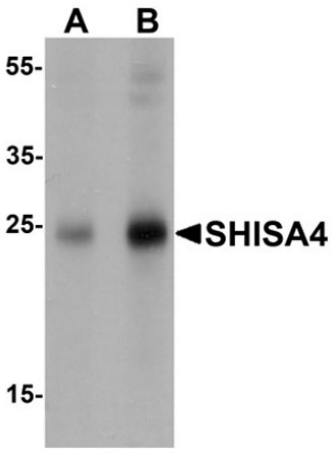
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

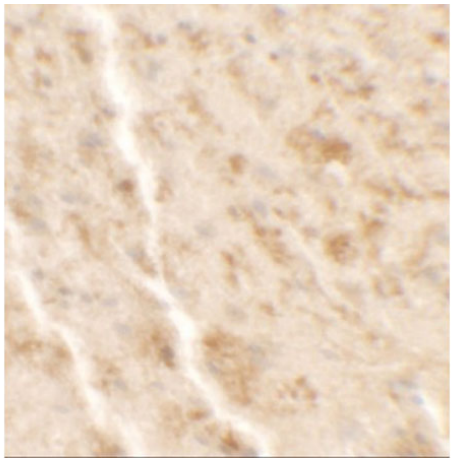
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several 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.

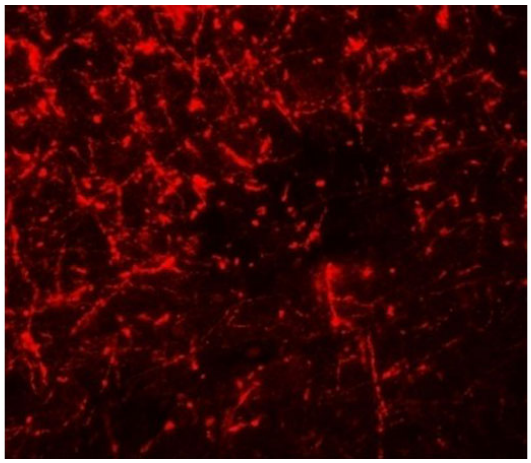
Images



Western Blot
Western blot analysis of SHISA4.
Tissue: human brain tissue lysate.
Primary Antibody: SHISA4 antibody at (A) 1 and (B) 2 µg/mL.



Immunohistochemistry
Immunohistochemistry of SHISA4.
Tissue: mouse brain tissue.
Primary Antibody: SHISA4 antibody at 2.5 µg/mL.



Immunofluorescence Microscopy
Immunofluorescence of SHISA4.
Tissue: mouse brain tissue.
Primary Antibody: SHISA4 antibody at 20 µg/mL.

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.