

Datasheet for 600-401-Z34**BAPX1 Antibody****Overview**

Description:	Anti-BAPX1 (RABBIT) Antibody - 600-401-Z34
Item No.:	600-401-Z34
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	BAPX1 is the mammalian homolog of the Drosophila bagpipe homeobox gene and is expressed in the splanchnic mesoderm and embryonic skeleton. It is one of the earliest developmental markers for the sclerotome portion of the somite and the gut mesentery. BAPX1 is required for normal skeletal development; homozygous inactivating mutations in the BAPX1 gene result in spodylo-megaepiphyseal-metaphyseal dysplasia (SMMD). It has also been suggested to play a role in the proper development of the mammalian gut and is required for distal stomach development as part of a BARX1-dependent pathway.
Synonyms:	BAPX1 Antibody, SMMD, BAPX1, NKX3B, NKX3.2, Bagpipe homeobox protein homolog 1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	NKX3-2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-BAPX1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid synthetic peptide near the internal region of human BAPX1.

Purity/Specificity: Anti-BAPX1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. BAPX1 antibody is predicted not to cross-react with other NKX homeobox proteins.

Relevant Links:

- [UniProtKB - P78367](#)
- [GeneID - 579](#)
- [NCBI - NP_001180](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-BAPX1 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 35 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: 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

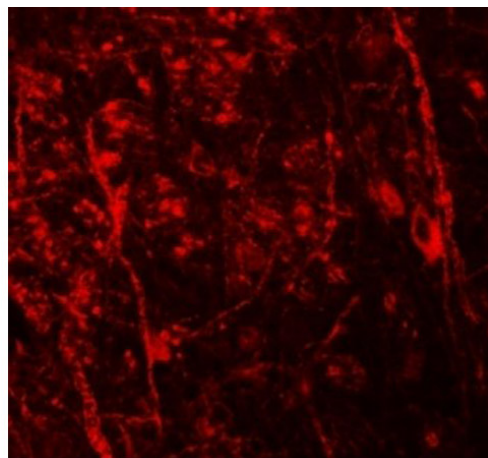
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

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

Images

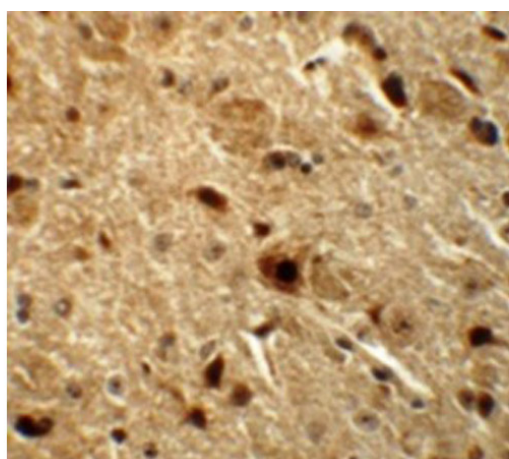


Immunofluorescence Microscopy

Immunofluorescence of BAPX1.

Tissue: mouse brain tissue.

Primary Antibody: BAPX1 antibody at 20 µg/mL.

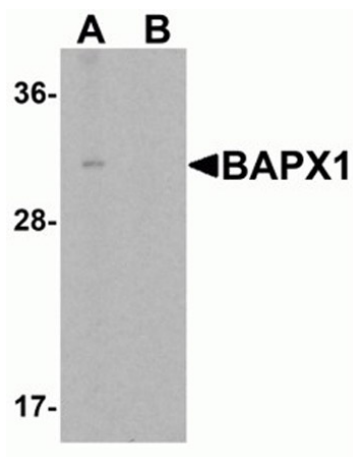


Immunohistochemistry

Immunohistochemistry of BAPX1.

Tissue: mouse brain tissue.

Primary Antibody: BAPX1 antibody at 5 µg/mL.



Western Blot

Western blot analysis of BAPX1.

Load: human brain tissue lysate.

Primary Antibody: BAPX1 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.

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.