

Datasheet for 600-401-BR4**HINT1 Antibody****Overview**

Description:	Anti-HINT1 (RABBIT) Antibody - 600-401-BR4
Item No.:	600-401-BR4
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Histidine triad nucleotide-binding protein 1 (HINT1) is a member of the histidine triad (HIT) protein family, a group of small nucleotide-binding and -hydrolyzing proteins. HINT1 interacts with several diverse proteins and has been suggested to have tumor suppressive activities. HINT1 catalyzes the hydrolysis of adenosine 5'-monophoramidate substrates such as AMP-morpholidate, but its enzymatic function does not appear to play a role in its tumor suppression. Recent experiments demonstrate that HINT1 forms a complex with POSH and JNK in vivo, inhibiting AP-1 activity and the phosphorylation of c-Jun, and this action could contribute to the tumor suppressor activity of HINT1. Other studies raise the possibility of HINT1 as a candidate gene for schizophrenia.
Synonyms:	HINT1 Antibody, HINT, NMN, PKCI-1, PRKCNH1, HINT, PKCI1, Histidine triad nucleotide-binding protein 1, Protein kinase C inhibitor 1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	HINT1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-HINT1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide near the internal region of the human HINT1.
Purity/Specificity:	Anti-HINT1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with HINT1 from other sources has not been determined.
Relevant Links:	• UniProtKB - P49773 • GeneID - 3094 • NCBI - NP_005331

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-HINT1 Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry. 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:	1:10,000 - 1:20,000
WB:	1-2 µg/mL

Formulation

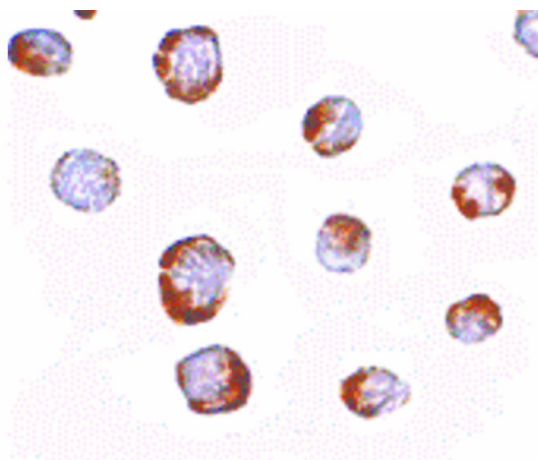
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
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.

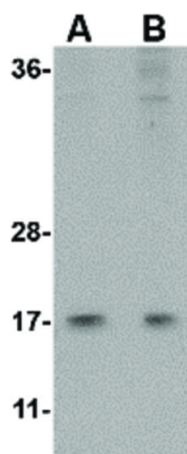
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunocytochemistry

Immunocytochemistry of HINT1 antibody. Tissue: Jurkat cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: HINT1 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: HINT is nuclear and occasionally cytoplasmic. Staining: HINT1 as a precipitated brown signal with hematoxylin purple counterstain.



Western Blot

Western Blot of HINT1 antibody. Lane A: Jurkat lysate at 1 µg/mL. Lane B: Jurkat lysate 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: 13.8 kDa, ~17 kDa for HINT1.

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.