Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 600-401-HB5

HEY1 Antibody

Overview

Description:	Anti-HEY1 (RABBIT) Antibody - 600-401-HB5
Item No.:	600-401-HB5
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	HEY1 belongs to the hairy and enhancer of split-related family (HESR), a transcriptional repressor family. This nuclear protein is induced by the Notch pathway and is mainly associated with cardiovascular development. This family is known to repress GATA4, GATA6, MASH1, and NEUROD4 downstream effects. It's role in liver cancer cell self-renewal is still being studied, as it's suspected role in neurogenesis in mice. Hey1 is associated with diseases such as mesenchymal and periosteal chondrosarcoma. Anti-HEY1 antibody is useful for researchers interested in cancer research, neuroscience research, and Notch signalling.
Synonyms:	Rabbit Anti-HEY1 Antibody, BHLHB31, CHF2, HERP2, HESR1, HRT1, Hairy/Enhancer-Of-Split Related With YRPW Motif 1, Hes Related Family BHLH Transcription Factor With YRPW Motif 1, Hairy And Enhancer Of Split-Related Protein 1, Class B Basic Helix-Loop-Helix Protein 31, Cardiovascular Helix-Loop-Helix Factor 2, Hairy-Related Transcription Factor 1, HES-Related Repressor Protein 1, HRT-1, HESR-1, CHF-2, OAF1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	HEY1
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-HEY1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal portion of human HEY1 conjugated to Keyhole Limpet Hemocyanin (KLH).
Purity/Specificity:	This affinity purified antibody is directed against human HEY1. This product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with the antigen based on 100% homology with the immunizing sequence to mouse and 91.7% with dog and cattle.
Relevant Links:	• UniProtKB - Q9Y5J3 • NCBI - NP_001035798.1 • GeneID - 23462

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-HEY1 Antibody has been tested in Western Blot, ELISA, and Immunohistochemistry. Expect a band at ~33 kDa in western blot using appropriate tissues or lysates. Positive control used is a recombinant human Hey1 at 1µg/mL for WB; human cerebellum tissue at 1:100 for IHC.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:50,000
IHC:	1:100
WB:	1:1000

Formulation

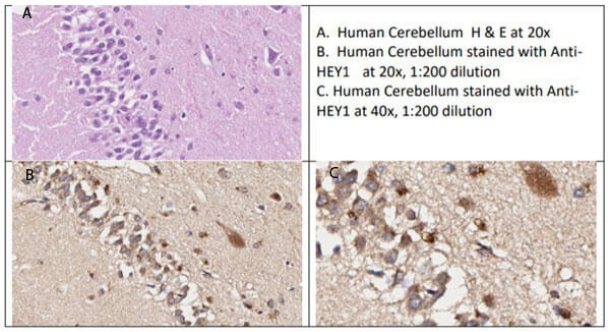
Physical State:	Liquid (sterile filtered)
Concentration:	1.06 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

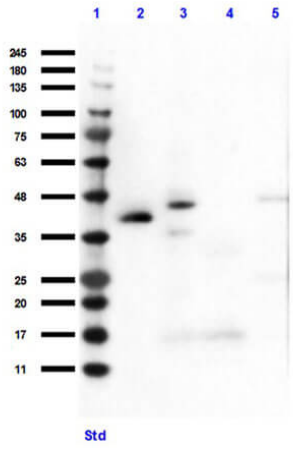
Shipping Condition:	Dry Ice

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



Immunohistochemistry
Immunohistochemistry of Rabbit Anti-HEY1 Antibody. Tissue: Human Cerebellum. Fixative: none. Antigen Retrieval: HIER using Citrate buffer for 20 minutes. Primary Antibody: Anti-HEY1 at 1:200 for 30 minutes at RT. Secondary Antibody: Ready-to-Use Anti-Rabbit IgG HRP for 8 minutes at RT. Counterstain: Hematoxylin. Results: HEY1 showed diffuse cytoplasmic/membranous staining of low to moderate intensity of cells in the molecular layer, Pukinje cells layer, and granular cell layer in human cerebellum.



Western Blot
Western Blot of Rabbit Anti-HEY1 Antibody. Lane 1: Opal PreStained Molecular Weight Marker (p/n MB-210-0500). Lane 2: HEY1 variant 2 human recombinant protein (50ng) [+]. Lane 3: A-172 lysate (p/n W09-001-GL5) (35µg) [+]. Lane 4: Jurkat lysate (p/n W09-001-370) (35µg) [+]. Lane 5: Mouse brain lysate (p/n W10-000-T004) (35µg) [+]. Primary Antibody: Anti-HEY1 at 1:1000 overnight at 2-8°C. Secondary Antibody: Goat Anti-Rabbit IgG [H&L] Mx10 HRP (p/n 611-103-122) at 1:70,000 for 30 minutes at RT. Block: BlockOut Buffer (p/n MB-073). Predicted MW: ~37kDa recombinant, ~33kDa endogenous. Observed: ~35-38kDa. Exposure: 19 sec.

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.