

Datasheet for 600-401-BR0**HES5 Antibody****Overview**

Description:	Anti-HES5 (RABBIT) Antibody - 600-401-BR0
Item No.:	600-401-BR0
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	HES5 is a member of the HES family of transcriptional repressors, which are the mammalian homologs of the Drosophila Hairless and Enhancer of Split and contain basic Helix-loop-helix (bHLH) and Orange domains (1). The HES5 gene is a downstream target of the Notch signaling pathway and its expression is downregulated during human cartilage differentiation (2). HES5 can directly repress transcription of the E3 ligase FBW7-beta, creating a feedback loop that modulates Notch-mediated intestinal and neural stem cell fate decisions (3).
Synonyms:	Hairy and enhancer of split 5, hes family bHLH transcription factor 5, bHLHb38
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	HES5
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-HES5 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid peptide near the N-terminus of human HES5.

Purity/Specificity: Anti-HES5 antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. HES5 antibody is human, mouse and rat reactive. At least two isoforms of HES5 are known to exist; this antibody will detect both isoforms.

Relevant Links:

- [UniProtKB - Q5TA89](#)
- [GeneID - 388585](#)
- [NCBI - NP_001010926](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-HES5 Antibody has been tested for use in ELISA, immunofluorescence, immunohistochemistry, and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 18 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: 20µg/mL

IHC: 5µg/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

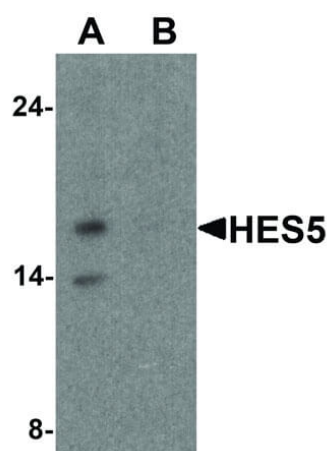
Shipping & Handling

Shipping Condition: 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 of Rabbit anti-HES5 antibody. Lane A: Raji cell lysate in the absence of blocking peptide. Lane B: Raji cell lysate in the presence of blocking peptide. Primary antibody: HES5 antibody at 1 µg/mL overnight at 4°C. Secondary antibody: Goat anti-Rabbit HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 18 kDa, 17 kDa for HES5.

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.