

Rabbit HEYL Polyclonal Antibody | anti-HEYL antibody

HEYL Antibody (N-term)

CATALOG # AAA287219	HOST Rabbit	REACTIVITY Human (Predicted Reactivity: Bovine, Mouse)	APPLICATIONS Immunofluorescence, ELISA, Western Blot
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PRODUCT SYNONYMS

HEYL; Polyclonal Antibody; HEYL Antibody (N-term); Hairy/enhancer-of-split related with YRPW motif-like protein; hHeyL; Class B basic helix-loop-helix protein 33; bHLHb33; Hairy-related transcription factor 3; HRT-3; hHRT3; BHLHB33; HRT3; anti-HEYL antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine, Mouse)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This HEYL antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 26-54 amino acids from the N-terminal region of human HEYL.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	26-54
Sequence Length	328
Applicable Applications for anti-HEYL antibody	IF (Immunofluorescence), ELISA, WB (Western Blot)
Function	Downstream effector of Notch signaling which may be required for cardiovascular development (By similarity). Transcriptional repressor which binds preferentially to the canonical E box sequence 5'-CACGTG-3' (By similarity). Represses transcription by the cardiac transcriptional activators GATA4 and GATA6.
Cellular Location	Nucleus {ECO:0000255 PROSITE-ProRule:PRU00380, ECO:0000255 PROSITE-ProRule:PRU00981}
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Fluorescent confocal image of HeLa cell stained with HEYL Antibody (N-term). HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with HEYL primary antibody (1:25, 1 h at 37 degree). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min). HEYL immunoreactivity is localized to Mitochondria significantly.



WB (Western Blot)

HEYL Antibody (N-term) western blot analysis in MDA-MB231 cell line lysates (35ug/lane). This demonstrates the HEYL antibody detected the HEYL protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-HEYL antibody	This gene encodes a member of the hairy and enhancer of split-related (HESR) family of basic helix-loop-helix (bHLH)-type transcription factors. The sequence of the encoded protein contains a conserved bHLH and orange domain, but its YRPW motif has diverged from other HESR family members. It is thought to be an effector of Notch signaling and a regulator of cell fate decisions. Alternatively spliced transcript variants have been found, but their biological validity has not been determined. [provided by RefSeq].
References	Kokubo, H., et al. Trends Cardiovasc. Med. 15(5):190-194(2005) Colland, F., et al. Genome Res. 14(7):1324-1332(2004) Iso, T., et al. J. Cell. Physiol. 194(3):237-255(2003) Nakagawa, O., et al. Proc. Natl. Acad. Sci. U.S.A. 97(25):13655-13660(2000) Firulli, B.A., et al. J. Biol. Chem. 275(43):33567-33573(2000)

NCBI AND UNIPROT INFORMATION

NCBI GI #	7657154
NCBI GeneID	26508
NCBI Accession #	NP_055386.1
NCBI GenBank Nucleotide #	NM_014571.3
UniProt Accession #	Q9NQ87; Q5TG99
Molecular Weight	35087
NCBI Official Full Name	hairy/enhancer-of-split related with YRPW motif-like protein
NCBI Official Synonym Full Names	hes-related family bHLH transcription factor with YRPW motif-like
NCBI Official Symbol	HEYL
NCBI Official Synonym Symbols	HEY3; HRT3; HESR3; bHLHb33
NCBI Protein Information	hairy/enhancer-of-split related with YRPW motif-like protein
UniProt Protein Name	Hairy/enhancer-of-split related with YRPW motif-like protein
UniProt Gene Name	HEYL
UniProt Synonym Gene Names	BHLHB33; HRT3; hHeyL; bHLHb33; HRT-3; hHRT3
UniProt Entry Name	HEYL_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hey-l-antibody-immunofluorescence-western-blot-elisa/287219>