

HEYL Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16997A**Specification**

HEYL Antibody (N-term) - Product Information

Application	IF, WB,E
Primary Accession	O9NQ87
Other Accession	O9DBX7 , O2NL18 , NP_055386.1
Reactivity	Human
Predicted	Bovine, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	35087
Antigen Region	26-54

HEYL Antibody (N-term) - Additional Information**Gene ID** 26508**Other Names**

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, HEYL, BHLHB33, HRT3

Target/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.

Dilution

IF~~1:10~50

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

HEYL Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

HEYL Antibody (N-term) - Protein Information**Name** HEYL

Synonyms BHLHB33, HRT3

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.

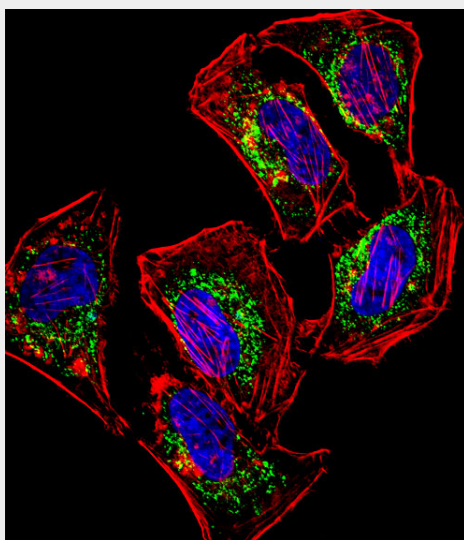
Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00380, ECO:0000255|PROSITE-ProRule:PRU00981}

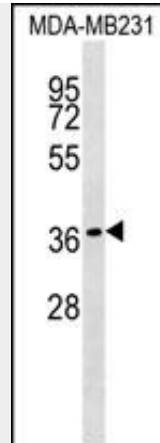
HEYL Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

HEYL Antibody (N-term) - Images

Fluorescent confocal image of HeLa cell stained with HEYL Antibody (N-term)(Cat#AP16997a). 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°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37°C). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/ml, 1 h at 37°C). Nuclei were counterstained with DAPI (blue) (10 µg/ml, 10 min). HEYL immunoreactivity is localized to Mitochondria significantly.



HEYL Antibody (N-term) (Cat. #AP16997a) western blot analysis in MDA-MB231 cell line lysates (35ug/lane). This demonstrates the HEYL antibody detected the HEYL protein (arrow).

HEYL Antibody (N-term) - Background

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].

HEYL Antibody (N-term) - References

- Kokubo, H., et al. Trends Cardiovasc. Med. 15(5):190-194(2005)
- Colland, F., et al. Genome Res. 14(7):1324-1332(2004)
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- 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)