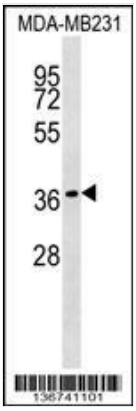
# HEYL Antibody – Rabbit Polyclonal

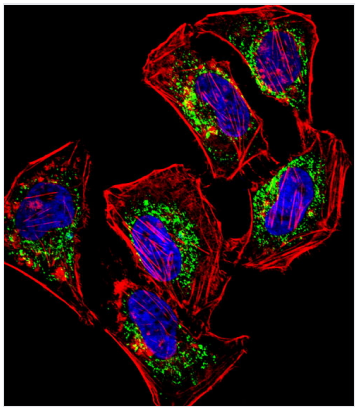
## PRODUCT OVERVIEW

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| **Product Name** | HEYL, Polyclonal Antibody |
| **Full Product Name** | HEYL, NT (HEYL, BHLHB33, HRT3, Hairy/enhancer-of-split related with YRPW motif-like protein, Class B basic helix-loop-helix protein 33, Hairy-related transcription factor 3) (Azide free) (HRP) |
| **Product Gene Name** | anti-HEYL antibody |
| **Product Synonym Names** | HEYL; BHLHB33; HRT3; Hairy/enhancer-of-split related with YRPW motif-like protein; Class B basic helix-loop-helix protein 33; Hairy-related transcription factor 3 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP). |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **Molecular Weight** | 35,087 Da |
| **OMIM** | 609034 |
| **3D Structure** | ModBase 3D Structure for Q9NQ87 |
| **Immunogen** | HEYL antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 25-54 amino acids from the N-terminal region of human HEYL. |
| **Conjugate** | HRP |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-HEYL antibody** | Antibodies; Transcription Factors |
| **Applications Tested/Suitable for anti-HEYL antibody** | Western Blot (WB), ELISA (EIA) |
| **Application Notes for anti-HEYL antibody** | WB: 1:100-500<br>ELISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **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]. |
| **Product References and Citations for anti-HEYL antibody** | 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). |

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| **Other Notes** | Small volumes of anti-HEYL antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for HEYL purchase** | MBS6306278 is an antibody targeting HEYL. Also known as HEYL, NT (HEYL, BHLHB33, HRT3, Hairy/enhancer-of-split related with YRPW motif-like protein, Class B basic helix-loop-helix protein 33, Hairy-related transcription factor 3) (Azide free) (HRP). Reactive in Human. Host: Rabbit. |




**Western Blot (WB) of anti-HEYL antibody**
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).



**Immunofluorescence (IF) of anti-HEYL antibody**
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 C). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree C).Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree C). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min). HEYL immunoreactivity is localized to Mitochondria significantly.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HEYL. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 105990530 |
| **NCBI GeneID** | 26508 |
| **NCBI Accession #** | NP_055386.1 |
| **UniProt Primary Accession #** | Q9NQ87 |
| **UniProt Secondary Accession #** | Q5TG99 |
| **UniProt Related Accession #** | Q9NQ87 |
| **GenBank Nucleotide #** | NM_014571 |
| **NCBI Official Full Name** | Homo sapiens hes-related family bHLH transcription factor with YRPW motif-like (HEYL), mRNA |
| **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 |
| **UniProt Protein Name** | Hairy/enhancer-of-split related with YRPW motif-like protein |
| **UniProt Synonym Protein Names** | Class B basic helix-loop-helix protein 33; bHLHb33; Hairy-related transcription factor 3; HRT-3; hHRT3 |
| **Protein Family** | 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 |

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| **NCBI Protein Information** | hairy/enhancer-of-split related with YRPW motif-like protein; HEY-like protein; HRT-3; class B basic helix-loop-helix protein 33; hHRT3; hHeyL; hairy-related transcription factor 3; hairy/enhancer-of-split related with YRPW motif 3 |
| **NCBI Summary for HEYL** | 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, Jul 2008] |
| **Research Articles on HEYL** | **1.** Repression of androgen receptor activity by HEYL, a third member of the Hairy/Enhancer-of-split-related family of Notch effectors. |
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