

## Rabbit HES1 Polyclonal Antibody | anti-HES1 antibody

HES1 Antibody (N-term T24)

| CATALOG # | HOST   | REACTIVITY                                                | APPLICATIONS                                                              |
|-----------|--------|-----------------------------------------------------------|---------------------------------------------------------------------------|
| AAA286029 | Rabbit | Human (Predicted Reactivity: Xenopus, Bovine, Mouse, Rat) | Immunofluorescence, Western Blot, ELISA, Flow Cytometry, Functional Assay |

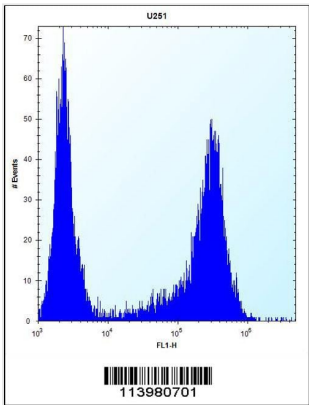
### PRODUCT SYNONYMS

HES1; Polyclonal Antibody; HES1 Antibody (N-term T24); Transcription factor HES-1; Class B basic helix-loop-helix protein 39; bHLHb39; Hairy and enhancer of split 1; Hairy homolog; Hairy-like protein; hHL; BHLHB39; HL; HRY; anti-HES1 antibody

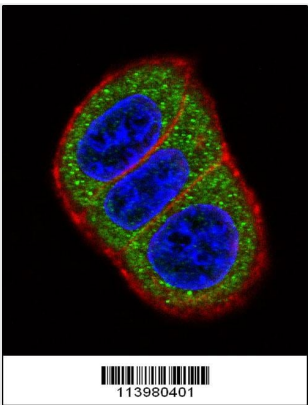
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                           |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                    |
| Reactivity                                     | Human (Predicted Reactivity: Xenopus, Bovine, Mouse, Rat)                                                                                                                                 |
| Clonality                                      | Polyclonal                                                                                                                                                                                |
| Isotype                                        | Rabbit Ig                                                                                                                                                                                 |
| Specificity                                    | This HES1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 9-38 amino acids from the N-terminal region of human HES1.                         |
| Purity/Purification                            | Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                                                 |
| Form/Format                                    | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| Concentration                                  | Vial Concentration: 2 (varies by lot)                                                                                                                                                     |
| Sequence Positions                             | 9-38                                                                                                                                                                                      |
| Sequence Length                                | 280                                                                                                                                                                                       |
| Applicable Applications for anti-HES1 antibody | IF (Immunofluorescence), WB (Western Blot), ELISA, FCM/FACS (Flow Cytometry)                                                                                                              |
| Antigen Type                                   | Synthetic Peptide                                                                                                                                                                         |
| Antigen Source                                 | HUMAN                                                                                                                                                                                     |
| Preparation and Storage                        | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                                    |

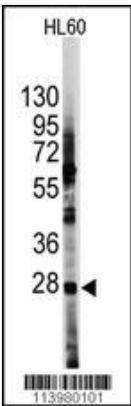
IMAGES



**FCM/FACS (Flow Cytometry)**  
HES1 Antibody (N-term T24) flow cytometric analysis of U251 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



**IF (Immunofluorescence)**  
Confocal immunofluorescent analysis of HES1 Antibody (N-term T24) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).DAPI was used to stain the cell nuclear (blue).



**WB (Western Blot)**  
Western blot analysis of anti-HES1 Antibody (N-term T24) (RB13980) in HL60 cell line lysates (35ug/lane). HES1 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-HES1 antibody | HES1 belongs to the basic helix-loop-helix family of transcription factors. It is a transcriptional repressor of genes that require a bHLH protein for their transcription. HES1 has a particular type of basic domain that contains a helix interrupting protein that binds to the N-box rather than the canonical E-box. |
| Product Categories/Family for anti-HES1 antibody   | Neuroscience                                                                                                                                                                                                                                                                                                               |
| References                                         | Liu,J., Int. J. Gynecol. Cancer 17 (6), 1293-1299 (2007)<br>Karlsson,C., J. Orthop. Res. 25 (2), 152-163 (2007)                                                                                                                                                                                                            |

NCBI AND UNIPROT INFORMATION

|                           |                |
|---------------------------|----------------|
| NCBI GI #                 | 5031763        |
| NCBI GeneID               | 3280           |
| NCBI Accession #          | NP_005515.1    |
| NCBI GenBank Nucleotide # | NM_005524.3    |
| UniProt Accession #       | Q14469; Q6FHB2 |
| Molecular Weight          | 29541          |

|                                  |                                        |
|----------------------------------|----------------------------------------|
| NCBI Official Full Name          | transcription factor HES-1             |
| NCBI Official Synonym Full Names | hes family bHLH transcription factor 1 |
| NCBI Official Symbol             | HES1                                   |
| NCBI Official Synonym Symbols    | HHL; HRY; HES-1; bHLHb39               |
| NCBI Protein Information         | transcription factor HES-1             |
| UniProt Protein Name             | Transcription factor HES-1             |
| UniProt Gene Name                | <b>HES1</b>                            |
| UniProt Synonym Gene Names       | BHLHB39; HL; HRY; bHLHb39; hHL         |
| UniProt Entry Name               | HES1_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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