

Full-Length

## HES7 (Human) Recombinant Protein (P01)

Catalog # H00084667-P01

Size 50 ug

### Specification

|                               |                                                                                                                                                                                                                                             |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description           | Human HES7 full-length ORF ( NP_115969.2, 1 a.a. - 225 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                |
| Sequence                      | MVTRDRAENRDGPKMLKPLVEKRRRDRINRSLEELRLLLLERTRDQNLRNPKLEKAEILEFAVGYL<br>RERSRVEPPGVP RSPVQDAEALASCYLSGFRECLLRLAFAHDASPAARAQLFSALHGylRPKP<br>PRPKPVDPRPPAPRPSLDPAAPALGPALHQRPPVHQGHSPRCawSPSLCSPRAGDSGAPAP<br>LTGLLPPPPPHRQDGAPKAPLPPPPAFWRPWP |
| Host                          | Wheat Germ (in vitro)                                                                                                                                                                                                                       |
| Theoretical MW (kDa)          | 51.15                                                                                                                                                                                                                                       |
| Interspecies Antigen Sequence | Mouse (92); Rat (92)                                                                                                                                                                                                                        |
| Preparation Method            | <a href="#">in vitro wheat germ expression system</a>                                                                                                                                                                                       |
| Purification                  | Glutathione Sepharose 4 Fast Flow                                                                                                                                                                                                           |
| Storage Buffer                | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                    |
| Storage Instruction           | Store at -80°C. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                             |
| Note                          | Best use within three months from the date of receipt of this protein.                                                                                                                                                                      |

### Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production

- Protein Array

## Gene Info — HES7

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">84667</a>                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| GeneBank Accession# | <a href="#">NM_032580.2</a>                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Protein Accession#  | <a href="#">NP_115969.2</a>                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene Name           | HES7                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Gene Alias          | bHLHb37                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Gene Description    | hairy and enhancer of split 7 (Drosophila)                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Omim ID             | <a href="#">608059</a>                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gene Summary        | This gene encodes a member of the hairy and enhancer of split family of bHLH transcription factor s. The mouse ortholog of this gene is regulated by Notch signaling. The protein functions as a tran scriptional repressor, and is implicated in correct patterning of the axial skeleton. A mutation in thi s gene has been shown to result in spondylocostal dysostosis. Multiple transcript variants encodin g different isoforms have been found for this gene |
| Other Designations  | bHLH factor Hes7 hairy and enhancer of split 7                                                                                                                                                                                                                                                                                                                                                                                                                      |

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