

# Recombinant Human EXTL1, His-tagged

**Cat. No.** EXTL1-12605H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b> | Recombinant Human EXTL1 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | 328-676a.a.                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | This gene is a member of the multiple exostoses (EXT) family of glycosyltransferases, which function in the chain polymerization of heparan sulfate and heparin. The encoded protein harbors alpha 1,4- N-acetylglucosaminyltransferase activity, and is involved in chain elongation of heparan sulfate and possibly heparin. |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                      |
| <b>Storage Buffer</b>   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.                                                                                                                                                          |

## GENE INFORMATION

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|------------------------|----------------------------------------------------|
| <b>Gene Name</b>       | EXTL1 exostoses (multiple)-like 1 [ Homo sapiens ] |
| <b>Official Symbol</b> | EXTL1                                              |

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| <b>Synonyms</b>            | exostoses (multiple)-like 1; 3515; Ensembl:ENSG00000158008; MGC70794; exostosin-like 1;exostosin-L;multiple exostosis-like protein;alpha-N-acetylglucosaminyltransferase II;glucuronosyl-N-acetylglucosaminyl-proteoglycan 4-alpha-N-acetylglucosaminyltransferase;glucuronyl-N-acetylglucosaminylproteoglycan alpha-1,4-N- acetylglucosaminyltransferase;glucuronosyl-N-acetylglucosaminyl-proteoglycan 4-alpha-N- acetylglucosaminyltransferase; 2.4.1.224; EXTL                                                 |
| <b>Gene ID</b>             | 2134                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>mRNA Refseq</b>         | NM_004455.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>      | NP_004446.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>MIM</b>                 | 601738                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>UniProt ID</b>          | Q92935                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Chromosome Location</b> | 1p36.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Pathway</b>             | Glycosaminoglycan biosynthesis - heparan sulfate, organism-specific biosystem; Glycosaminoglycan biosynthesis - heparan sulfate, conserved biosystem; Glycosaminoglycan biosynthesis, heparan sulfate backbone, organism-specific biosystem; Glycosaminoglycan biosynthesis, heparan sulfate backbone, conserved biosystem; heparan sulfate biosynthesis, organism-specific biosystem; heparan sulfate biosynthesis, conserved biosystem; heparan sulfate biosynthesis (late stages), organism-specific biosystem; |
| <b>Function</b>            | glucuronosyl-N-acetylglucosaminyl-proteoglycan 4-alpha-N-acetylglucosaminyltransferase activity;                                                                                                                                                                                                                                                                                                                                                                                                                   |