

**EXT1 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP16833c**

**Specification**

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**EXT1 Antibody (Center) - Product Information**

|                   |                                                                                                        |
|-------------------|--------------------------------------------------------------------------------------------------------|
| Application       | WB,E                                                                                                   |
| Primary Accession | <a href="#">Q16394</a>                                                                                 |
| Other Accession   | <a href="#">P97464</a> , <a href="#">Q9JK82</a> , <a href="#">A5D7I4</a> , <a href="#">NP_000118.2</a> |
| Reactivity        | Human                                                                                                  |
| Predicted         | Bovine, Hamster, Mouse                                                                                 |
| Host              | Rabbit                                                                                                 |
| Clonality         | Polyclonal                                                                                             |
| Isotype           | Rabbit IgG                                                                                             |
| Calculated MW     | 86255                                                                                                  |
| Antigen Region    | 298-326                                                                                                |

**EXT1 Antibody (Center) - Additional Information**

**Gene ID** 2131

**Other Names**

Exostosin-1, Glucuronosyl-N-acetylglucosaminyl-proteoglycan/N-acetylglucosaminyl-proteoglycan 4-alpha-N-acetylglucosaminyltransferase, Multiple exostoses protein 1, Putative tumor suppressor protein EXT1, EXT1

**Target/Specificity**

This EXT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 298-326 amino acids from the Central region of human EXT1.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**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**

EXT1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**EXT1 Antibody (Center) - Protein Information**

**Name** EXT1 ([HGNC:3512](#))

**Function** Glycosyltransferase forming with EXT2 the heterodimeric heparan sulfate polymerase which catalyzes the elongation of the heparan sulfate glycan backbone (PubMed:[10639137](#), PubMed:[22660413](#), PubMed:[36402845](#), PubMed:[36593275](#), PubMed:[9620772](#)). Glycan backbone extension consists in the alternating transfer of (1->4)-beta-D-GlcA and (1->4)-alpha-D-GlcNAc residues from their respective UDP-sugar donors. Both EXT1 and EXT2 are required for the full activity of the polymerase since EXT1 bears the N-acetylglucosaminyl-proteoglycan 4-beta-glucuronosyltransferase activity within the complex while EXT2 carries the glucuronosyl-N-acetylglucosaminyl-proteoglycan 4-alpha-N- acetylglucosaminyltransferase activity (PubMed:[36402845](#), PubMed:[36593275](#)). Heparan sulfate proteoglycans are ubiquitous components of the extracellular matrix and play an important role in tissue homeostasis and signaling (PubMed:[10639137](#), PubMed:[11391482](#), PubMed:[22660413](#), PubMed:[9620772](#)).

**Cellular Location**

Golgi apparatus membrane; Single-pass type II membrane protein. Golgi apparatus, cis-Golgi network membrane; Single-pass type II membrane protein. Endoplasmic reticulum membrane; Single-pass type II membrane protein. Note=The active heparan sulfate polymerase complex composed of EXT1 and EXT2 is localized to the Golgi apparatus. If both proteins are individually detected in the endoplasmic reticulum, the formation of the complex promotes their transport to the Golgi.

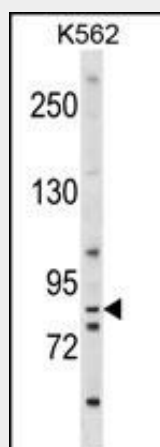
**Tissue Location**

Widely expressed..

**EXT1 Antibody (Center) - 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](#)

**EXT1 Antibody (Center) - Images**

EXT1 Antibody (Center) (Cat. #AP16833c) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the EXT1 antibody detected the EXT1 protein (arrow).

#### **EXT1 Antibody (Center) - Background**

This gene encodes an endoplasmic reticulum-resident type II transmembrane glycosyltransferase involved in the chain elongation step of heparan sulfate biosynthesis. Mutations in this gene cause the type I form of multiple exostoses. [provided by RefSeq].

#### **EXT1 Antibody (Center) - References**

Zuntini, M., et al. Oncogene 29(26):3827-3834(2010)  
Wen, W., et al. Genet Test Mol Biomarkers 14(3):371-376(2010)  
Li, Y., et al. Pathology 42(1):91-93(2010)  
Baasanjav, S., et al. BMC Med. Genet. 11, 110 (2010) :  
Ludecke, H.J., et al. Genomics 40(2):351-354(1997)