

EXT2 Antibody (C-Term)
Peptide-affinity purified goat antibody
Catalog # AF2968a

Specification

EXT2 Antibody (C-Term) - Product Information

Application	E
Primary Accession	Q93063
Other Accession	NP_000392.2 , NP_997005.1 , 2132 , 14043 (mouse), 311215 (rat)
Predicted Host	Human, Mouse, Rat, Dog
Clonality	Goat
Concentration	Polyclonal
Isotype	0.5 mg/ml
Calculated MW	IgG
	82255

EXT2 Antibody (C-Term) - Additional Information

Gene ID 2132

Other Names

Exostosin-2, 2.4.1.224, 2.4.1.225,
Glucuronosyl-N-acetylglucosaminyl-proteoglycan/N-acetylglucosaminyl-proteoglycan
4-alpha-N-acetylglucosaminyltransferase, Multiple exostoses protein 2, Putative tumor suppressor
protein EXT2, EXT2

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

EXT2 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

EXT2 Antibody (C-Term) - Protein Information

Name EXT2 ([HGNC:3513](#))

Function

Glycosyltransferase forming with EXT1 the heterodimeric heparan sulfate polymerase which catalyzes the elongation of the heparan sulfate glycan backbone (PubMed:[22660413](http://www.uniprot.org/citations/22660413), PubMed:[36402845](http://www.uniprot.org/citations/36402845), PubMed:[36402845](http://www.uniprot.org/citations/36402845), PubMed:[36402845](http://www.uniprot.org/citations/36402845))

[36593275](http://www.uniprot.org/citations/36593275)). 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](http://www.uniprot.org/citations/36402845)), PubMed:[36593275](http://www.uniprot.org/citations/36593275)). Heparan sulfate proteoglycans are ubiquitous components of the extracellular matrix and play an important role in tissue homeostasis and signaling (PubMed:[19344451](http://www.uniprot.org/citations/19344451)), PubMed:[22660413](http://www.uniprot.org/citations/22660413)).

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. Secreted {ECO:0000250|UniProtKB:O77783}. 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..

EXT2 Antibody (C-Term) - 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](#)

EXT2 Antibody (C-Term) - Images

EXT2 Antibody (C-Term) - Background

This antibody is expected to recognize isoform 1 and 2 (NP_000392.2; NP_997005.1).

EXT2 Antibody (C-Term) - References

Association Analysis of Variation in/near FTO, CDKAL1, SLC30A8, HHEX, EXT2, IGF2BP2, LOC387761 and CDKN2B with Type 2 Diabetes and Related Quantitative Traits in Pima Indians. Rong R, Hanson RL, Ortiz D, Wiedrich C, Kobes S, Knowler WC, Bogardus C, Baier LJ. Diabetes. 2008 Nov 13. [Epub ahead of print]. PMID: 19008344