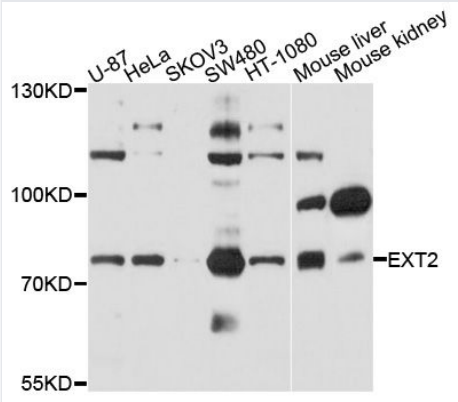
EXT2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EXT2, Polyclonal Antibody
Full Product Name	EXT2 Polyclonal Antibody
Product Gene Name	anti-EXT2 antibody
Product Synonym Names	SOTV
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles.
Molecular Weight	Calculated MW: 82kDa Molecular Weight: 718
OMIM	133701
3D Structure	ModBase 3D Structure for Q93063
Immunogen	Recombinant protein of human EXT2
Product Categories/Family for anti-EXT2 antibody	Polyclonal
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-EXT2 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-EXT2 antibody	WB: 1:500 - 1:2000, IHC: 1:50 - 1:200
Related Product Information for anti-EXT2 antibody	This gene encodes one of two glycosyltransferases involved in the chain elongation step of heparan sulfate biosynthesis. Mutations in this gene cause the type II form of multiple exostoses. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.
Other Notes	Small volumes of anti-EXT2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for EXT2 purchase	MBS9129687 is an antibody targeting EXT2. Also known as EXT2 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-EXT2 antibody
Western blot analysis of extracts of various cell lines, using EXT2 antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit.Exposure time: 30s.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EXT2. It may not necessarily be applicable to this product.

NCBI GI #	296010873
NCBI GeneID	2132
NCBI Accession #	NP_000392.3
UniProt Primary Accession #	Q93063
UniProt Secondary Accession #	O15288; B2R5Z6; C9JU51; J3KPT2
UniProt Related Accession #	Q93063
GenBank Nucleotide #	NM_000401.3
NCBI Official Full Name	exostosin-2 isoform 1
NCBI Official Synonym Full Names	exostosin glycosyltransferase 2
NCBI Official Symbol	EXT2
NCBI Official Synonym Symbols	SOTV; SSMS
UniProt Protein Name	Exostosin-2
UniProt Synonym Protein Names	Glucuronosyl-N-acetylglucosaminyl-proteoglycan/N-acetylglucosaminyl-proteoglycan 4-alpha-N-acetylglucosaminyltransferase; Multiple exostoses protein 2; Putative tumor suppressor protein EXT2
Protein Family	Exostosin
UniProt Gene Name	EXT2
UniProt Entry Name	EXT2_HUMAN
NCBI Protein Information	exostosin-2

UniProt Comments for EXT2	EXT2: Glycosyltransferase required for the biosynthesis of heparan-sulfate. The EXT1/EXT2 complex possesses substantially higher glycosyltransferase activity than EXT1 or EXT2 alone. Appears to be a tumor suppressor. Defects in EXT2 are a cause of hereditary multiple exostoses type 2 (EXT2). EXT is a genetically heterogeneous bone disorder caused by genes segregating on human chromosomes 8, 11, and 19 and designated EXT1, EXT2 and EXT3 respectively. EXT is a dominantly inherited skeletal disorder primarily affecting endochondral bone during growth. The disease is characterized by formation of numerous cartilage-capped, benign bone tumors (osteocartilaginous exostoses or osteochondromas) that are often accompanied by skeletal deformities and short stature. In a small percentage of cases exostoses have exhibited malignant transformation resulting in an osteosarcoma or chondrosarcoma. Osteochondromas development can also occur as a sporadic event. Defects in EXT2 are a cause of Potocki-Shaffer syndrome (POSHS). It is a contiguous gene syndrome due to proximal deletion of chromosome 11p11.2, including EXT2 and ALX4. Belongs to the glycosyltransferase 47 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.4.1.225; Tumor suppressor; EC 2.4.1.224; Glycan Metabolism - heparan sulfate biosynthesis; Membrane protein, integral; Transferase Chromosomal Location of Human Ortholog: 11p12-p11 Cellular Component: endoplasmic reticulum; endoplasmic reticulum membrane; Golgi apparatus; Golgi membrane; integral to membrane; membrane Molecular Function: acetylglucosaminyltransferase activity; glucuronosyl-N-acetylglucosaminyl-proteoglycan 4-alpha-N-acetylglucosaminyltransferase activity; glucuronosyltransferase activity; heparan sulfate N-acetylglucosaminyltransferase activity; metal ion binding; N-acetylglucosaminyl-proteoglycan 4-beta-glucuronosyltransferase activity; protein heterodimerization activity; protein homodimerization activity; transferase activity, transferring glycosyl groups Biological Process: carbohydrate metabolic process; cell differentiation; cellular polysaccharide biosynthetic process; glycosaminoglycan biosynthetic process; glycosaminoglycan metabolic process; heparan sulfate proteoglycan biosynthetic process; heparan sulfate proteoglycan biosynthetic process, polysaccharide chain biosynthetic process; mesoderm formation; ossification; protein amino acid glycosylation; signal transduction Disease: Exostoses, Multiple, Type Ii
Research Articles on EXT2	**1.** EXT2 gene might not have a major role in the development of type 2 diabetes in the Chinese population.
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