

EXT1 Antibody

Catalog No: #32560

Package Size: #32560-1 50ul #32560-2 100ul

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Description

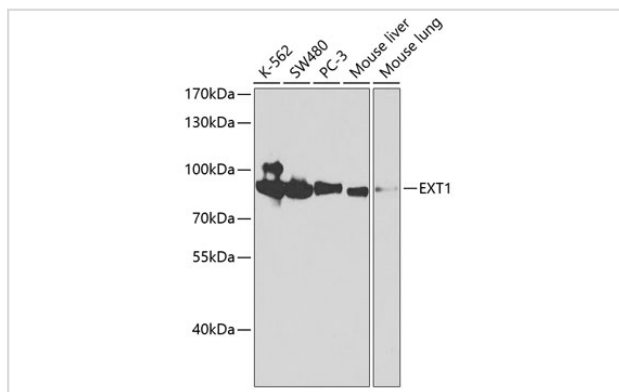
Product Name	EXT1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IF
Species Reactivity	Human,Mouse
Specificity	The antibody detects endogenous level of total EXT1 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human EXT1.
Target Name	EXT1
Other Names	EXT; LGS; TTV; LGCR; TRPS2
Accession No.	Swiss-Prot:Q16394NCBI Gene ID:2131
SDS-PAGE MW	86KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

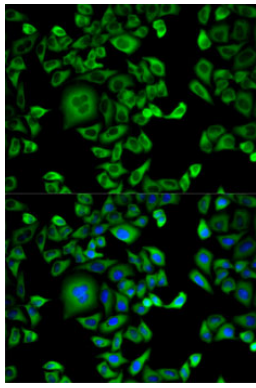
WB □ 1:500 - 1:2000

IF □ 1:10 - 1:100

Images



Western blot analysis of extracts of various cell lines, using EXT1 antibody at 1:1000 dilution.



Immunofluorescence analysis of HeLa cells using EXT1 antibody. Blue: DAPI for nuclear staining.

Background

Hereditary multiple exostoses (EXT) is an autosomal dominant disorder characterized by the formation of cartilage-capped tumors (exostoses) that develop from the growth plate of endochondral bone. This condition can lead to skeletal abnormalities, short stature and malignant transformation of exostoses to chondrosarcomas or osteosarcomas. Linkage analyses have identified three different genes for EXT, EXT1 on 8q24.1, EXT2 on 11p11-13 and EXT3 on 19p, a family of tumor suppressor genes. Most EXT cases have been attributed to missense or frameshift mutations, which lead to loss of function of the EXT genes. EXT1 is an ER-resident type II transmembrane glycoprotein and a heparan sulphate polymerase with both D-glucuronyl and N-acetyl-D-glucosaminoglycan transferase activities. Expression of EXT1 in cells results in the alteration of the synthesis and display of cell surface heparan sulfate glycosaminoglycans. EXT1 mutations have been identified in multiple types of human tumors.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.