# SULF1 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | SULF1, Polyclonal Antibody |
| **Full Product Name** | SULF1 Antibody, Biotin conjugated |
| **Product Gene Name** | anti-SULF1 antibody |
| **Product Synonym Names** | Extracellular sulfatase Sulf-1; SULF1; KIAA1077 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Liquid |
| **Purity/Purification** | >95%, Protein G purified |
| **Preparation and Storage** | Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze. |
| **Matching Pairs** | Unconjugated Antibody: SULF1 (MBS7045743)<br>Biotin Conjugated Antibody: SULF1 (MBS7045524) |
| **Molecular Weight** | 101,027 Da |
| **OMIM** | 610012 |
| **3D Structure** | ModBase 3D Structure for Q8IWU6 |
| **Species** | Human |
| **Immunogen** | Recombinant human Extracellular sulfatase Sulf-1 protein |
| **Conjugate** | Biotin |
| **Buffer** | Preservative: 0.03% Proclin 300<br>Constituents: 50% Glycerol, 0.01M PBS, PH 7.4 |
| **Santa Cruz Alternative** | Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-98153 / sc-98325 |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-SULF1 antibody** | ELISA (EIA) |
| **Related Product Information for anti-SULF1 antibody** | Exhibits arylsulfatase activity and highly specific endoglucosamine-6-sulfatase activity. It can remove sulfate from the C-6 position of glucosamine within specific subregions of intact heparin. Diminishes HSPG (heparan sulfate proteoglycans) sulfation, inhibits signaling by heparin-dependent growth factors, diminishes proliferation, and facilitates apoptosis in response to exogenous stimulation. |
| **Other Notes** | Small volumes of anti-SULF1 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 SULF1 purchase** | MBS7045524 is an antibody targeting SULF1. Also known as SULF1 Antibody, Biotin conjugated. Reactive in Human. Host: Rabbit. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SULF1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 189571638 |
| **NCBI GeneID** | 23213 |
| **NCBI Accession #** | NP_001121676.1 |
| **UniProt Primary Accession #** | Q8IWU6 |
| **UniProt Secondary Accession #** | Q86YV8; Q8NCA2; Q9UPS5 |
| **UniProt Related Accession #** | Q8IWU6 |
| **GenBank Nucleotide #** | NM_001128204.1 |
| **NCBI Official Full Name** | extracellular sulfatase Sulf-1 |
| **NCBI Official Synonym Full Names** | sulfatase 1 |
| **NCBI Official Symbol** | SULF1 |
| **NCBI Official Synonym Symbols** | SULF-1 |
| **UniProt Protein Name** | Extracellular sulfatase Sulf-1 |
| **Protein Family** | Extracellular sulfatase |
| **UniProt Gene Name** | SULF1 |
| **UniProt Synonym Gene Names** | KIAA1077; hSulf-1 |
| **UniProt Entry Name** | SULF1_HUMAN |
| **NCBI Protein Information** | extracellular sulfatase Sulf-1 |
| **NCBI Summary for SULF1** | This gene encodes an extracellular heparan sulfate endosulfatase. The encoded enzyme selectively removes 6-O-sulfate groups from heparan sulfate chains of heparan sulfate proteoglycans (HSPGs). The enzyme is secreted through the Golgi and is subsequently localized to the cell surface. The expression of this gene may be down-regulated in several types of cancer, including hepatocellular (HCC), ovarian and breast cancers. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013] |
| **UniProt Comments for SULF1** | SULF1: Exhibits arylsulfatase activity and highly specific endoglucosamine-6-sulfatase activity. It can remove sulfate from the C-6 position of glucosamine within specific subregions of intact heparin. Diminishes HSPG (heparan sulfate proteoglycans) sulfation, inhibits signaling by heparin-dependent growth factors, diminishes proliferation, and facilitates apoptosis in response to exogenous stimulation. Belongs to the sulfatase family.<br><br>Protein type: Hydrolase; Motility/polarity/chemotaxis; EC 3.1.6.-<br><br>Chromosomal Location of Human Ortholog: 8q13.2<br><br>Cellular Component: cell surface; endoplasmic reticulum; extracellular space; Golgi apparatus; lipid raft; plasma membrane<br><br>Molecular Function: arylsulfatase activity; N-acetylglucosamine-6-sulfatase activity<br><br>Biological Process: cartilage development; chondrocyte development; embryonic skeletal development; esophagus smooth muscle contraction; glomerular basement membrane development; glomerular filtration; heparan sulfate proteoglycan metabolic process; kidney development; negative regulation of angiogenesis; negative regulation of cell migration; negative regulation of endothelial cell proliferation; negative regulation of fibroblast growth factor receptor signaling pathway; positive regulation of BMP signaling pathway; positive regulation of Wnt receptor signaling pathway; regulation of fibroblast growth factor receptor signaling pathway; vascular endothelial growth factor receptor signaling pathway |
| **Research Articles on SULF1** | **1.** Results show that SULF1 or SULF2 overexpression contributes to colorectal cancer cell proliferation, migration, and invasion. |

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| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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