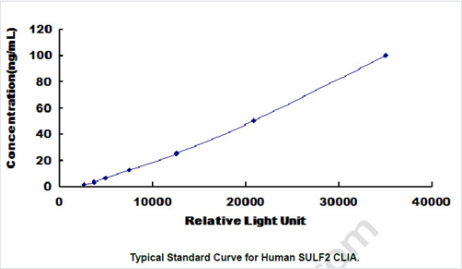
Sulfatase 2 (SULF2) CLIA Kit for Human

PRODUCT OVERVIEW

Product Name	Sulfatase 2 (SULF2), CLIA Kit
Full Product Name	Human Sulfatase 2 (SULF2) CLIA Kit
Product Gene Name	SULF2 clia kit
Product Synonym Names	HSULF-2; Extracellular sulfatase Sulf-2
Species Reactivity	Human
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	0.14-100ng/mL
Sensitivity	0.09ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of Sulfatase 2 (SULF2). No significant cross-reactivity or interference between Sulfatase 2 (SULF2) and analogues was observed.
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.
Molecular Weight	100,156 Da
OMIM	610013
3D Structure	ModBase 3D Structure for Q8IWU5
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Application	Chemiluminescent immunoassay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Sulfatase 2 (SULF2) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Sulfatase 2 (SULF2) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Product Categories/Family for SULF2 clia kit	Enzyme & Kinase
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Related Product Information for SULF2 clia kit	The microplate provided in this kit has been pre-coated with an antibody specific to Sulfatase 2 (SULF2). Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to Sulfatase 2 (SULF2). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is proportional to the Sulfatase 2 (SULF2) level in the sample or standard.;

Other Notes	Small volumes of SULF2 clia kit 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 SULF2 purchase	MBS2000474 is a CLIA kit targeting SULF2. Also known as Human Sulfatase 2 (SULF2) CLIA Kit. Reactive in Human.



Typical Testing Data/Standard Curve (for reference only) of SULF2 clia kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SULF2. It may not necessarily be applicable to this product.

NCBI GI #	83405533
NCBI GeneID	55959
NCBI Accession #	AAI10540.1
UniProt Primary Accession #	Q8IWU5
UniProt Secondary Accession #	Q5JYE1; Q6UX86; Q96SG2; Q9H1H0; Q9UJR3; Q9ULH3; E1P5U6
UniProt Related Accession #	Q8IWU5
NCBI Official Full Name	Sulfatase 2
NCBI Official Synonym Full Names	sulfatase 2
NCBI Official Symbol	SULF2
NCBI Official Synonym Symbols	HSULF-2
UniProt Protein Name	Extracellular sulfatase Sulf-2
Protein Family	Extracellular sulfatase
UniProt Gene Name	SULF2
UniProt Synonym Gene Names	KIAA1247; hSulf-2
UniProt Entry Name	SULF2_HUMAN
NCBI Protein Information	extracellular sulfatase Sulf-2
NCBI Summary for SULF2	Heparan sulfate proteoglycans (HSPGs) act as coreceptors for numerous heparin-binding growth factors and cytokines and are involved in cell signaling. Heparan sulfate 6-O-endosulfatases, such as SULF2, selectively remove 6-O-sulfate groups from heparan sulfate. This activity modulates the effects of heparan sulfate by altering binding sites for signaling molecules (Dai et al., 2005 [PubMed 16192265]).[supplied by OMIM, Mar 2008]

UniProt Comments for SULF2	SULF2: 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. Belongs to the sulfatase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Hydrolase; Secreted; Secreted, signal peptide; EC 3.1.6.- Chromosomal Location of Human Ortholog: 20q13.12 Cellular Component: extracellular space; Golgi stack; cell surface; endoplasmic reticulum; plasma membrane Molecular Function: arylsulfatase activity; N-acetylglucosamine-6-sulfatase activity; calcium ion binding Biological Process: negative regulation of fibroblast growth factor receptor signaling pathway; cartilage development; embryonic skeletal development; glomerular basement membrane development; glomerular filtration; heparan sulfate proteoglycan metabolic process; esophagus smooth muscle contraction; chondrocyte development; kidney development; positive regulation of Wnt receptor signaling pathway
Research Articles on SULF2	**1.** SULF2 expression in human tumor tissue and cell lines, was assessed.
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