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SULF1 Antibody (C-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22157b

Product Information

Application	WB, FC, E
Primary Accession	Q8IWU6
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB56204
Calculated MW	101027

Additional Information

Gene ID	23213
Other Names	Extracellular sulfatase Sulf-1, hSulf-1, 3.1.6.-, SULF1, KIAA1077
Target/Specificity	This SULF1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 704-738 amino acids from human SULF1.
Dilution	WB~~1:2000 FC~~1:25 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SULF1 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SULF1
Synonyms	KIAA1077
Function	Exhibits arylsulfatase activity and highly specific endoglucosamine-6-sulfatase activity (PubMed:12368295, PubMed:12686563). It can remove sulfate from the C-6 position of glucosamine within specific subregions of intact heparin (PubMed:12368295, PubMed:12686563).

	Diminishes HSPG (heparan sulfate proteoglycans) sulfation, inhibits signaling by heparin-dependent growth factors, diminishes proliferation, and facilitates apoptosis in response to exogenous stimulation (PubMed:12686563).
Cellular Location	Endoplasmic reticulum {ECO:0000250|UniProtKB:Q8VI60}. Golgi apparatus, Golgi stack {ECO:0000250|UniProtKB:Q8VI60}. Cell surface
Tissue Location	Expressed at highest levels in testis, stomach, skeletal muscle, lung, kidney, pancreas, small intestine and colon. It is also detected in normal ovarian surface epithelial cells. Down- regulation seen in ovarian carcinoma cell lines, ovarian cancers, breast, pancreatic, renal and hepatocellular carcinoma cell lines

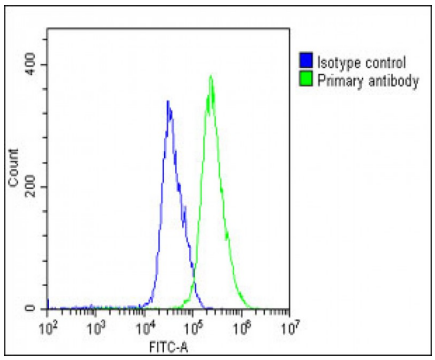
Background

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.

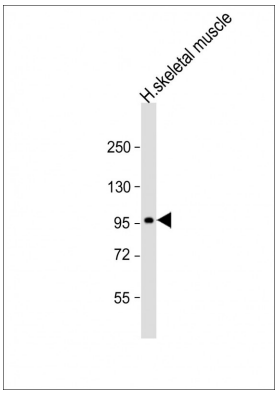
References

Morimoto-Tomita M.,et al.J. Biol. Chem. 277:49175-49185(2002).
Lai J.,et al.J. Biol. Chem. 278:23107-23117(2003).
Kikuno R.,et al.DNA Res. 6:197-205(1999).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Chen R.,et al.J. Proteome Res. 8:651-661(2009).

Images



Overlay histogram showing U-251 MG cells stained with AP22157b(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP22157b, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(1583138) at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.



Anti-SULF1 Antibody (C-Term) at 1:2000 dilution + human skeletal muscle lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 101 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.