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SULF2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12788b

Product Information

Application	WB, E
Primary Accession	Q8IWU5
Other Accession	Q8CFG0, NP_001155313.1, NP_061325.1, NP_940998.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB31333
Calculated MW	100455
Antigen Region	824-852

Additional Information

Gene ID	55959
Other Names	Extracellular sulfatase Sulf-2, hSulf-2, 316-, SULF2, KIAA1247
Target/Specificity	This SULF2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 824-852 amino acids from the C-terminal region of human SULF2.
Dilution	WB~~1:1000 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	SULF2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SULF2
Synonyms	KIAA1247
Function	Exhibits arylsulfatase activity and highly specific endoglucosamine-6-sulfatase activity (PubMed:12368295, PubMed:30788513,

	PubMed:35294879). It can remove sulfate from the C-6 position of glucosamine within specific subregions of intact heparin (PubMed:12368295, PubMed:30788513, PubMed:35294879).
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 the ovary, skeletal muscle, stomach, brain, uterus, heart, kidney and placenta

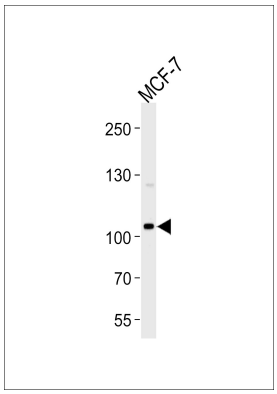
Background

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]).

References

Lai, J.P., et al. Hepatology 52(5):1680-1689(2010) Ellinor, P.T., et al. Nat. Genet. 42(3):240-244(2010) Lemjabbar-Alaoui, H., et al. Oncogene 29(5):635-646(2010) Tang, R., et al. J. Biol. Chem. 284(32):21505-21514(2009) Chau, B.N., et al. Cancer Res. 69(4):1368-1374(2009)

Images



Western blot analysis of lysate from MCF-7 cell line, using SULF2 Antibody (C-term)(Cat. #AP12788b). AP12788b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.