

Product datasheet for **AP05259PU-N**

Sulfatase 2 (SULF2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western blot: (0.05-0.1 µg/ml). Positive control: human brain lysate.
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide derived from the human Sulf2 protein
Specificity:	This antibody detects Sulf2.
Formulation:	Phosphate buffered saline with 0.08 % sodium azide State: Aff - Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Affinity chromatography
Conjugation:	Unconjugated
Storage:	Ship on dry ice. Upon arrival, aliquot and freeze at -20°C to -70°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	sulfatase 2
Database Link:	Entrez Gene 55959 Human Q8IWU5



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Background:

Sulf-2 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. Mammalian Sulfs are endoproteolytically processed and secreted into the extracellular space of transfected cells, where they exhibit both arylsulfatase activity and highly specific endoglucosamine-6-sulfatase activity against intact heparin. Though the molecular weight of full length human Sulf2 is 100455 Da (870 amino acids), the endogenous Sulf2 is found by western blot to be present at molecular weights of 24.4, 33.7 and 51-60 kDa. Higher molecular weight species may be found depending on tissue and/or cell type. Analysis of human tumor tissue and tumor cell lines suggests that HSulf-1 is misregulated in cancers. HSulf-1 is found in a variety of normal tissues but is down-regulated in tumor cell lines originating from ovarian, breast, pancreatic, renal, and hepatocellular carcinoma. Tumors formed by cells expressing Sulf demonstrate enhanced extracellular matrix deposition. The 6-O-sulfation of heparan sulfate of myeloma tumor cells may be a critical factor in determining and regulating the in vivo growth of this cancer.

Synonyms:

KIAA1247

Product images:

Western blot of endogenous Sulf2 in human brain lysate (10 ug/lane) using (0.05 ug/ml). Developed with antirabbit HRP (1:5k) and Pierce's Super Signal West Femto.