

## Anti Rat SulfFP1/sulf-1 Polyclonal Antibody

Heparan sulfate and heparin play key roles in the binding of many growth and differentiation factors, and in signaling by other factors. In view of SulfFP's ability to modify the sulfation of heparan sulfate outside the cell, SulfFPs have been classified as new members of sulfatase family. The SulfFP gene is conserved in nematode, fruit fly and human.

SulfFP1 modifies the interaction between heparin binding proteins and the carbohydrate side-chain of heparan sulfate, and has a key role in regulating FGF and Wnt signaling. Changes in SulfFP1 levels in cancer cells have focused attention on SulfFP as a targeting molecule.

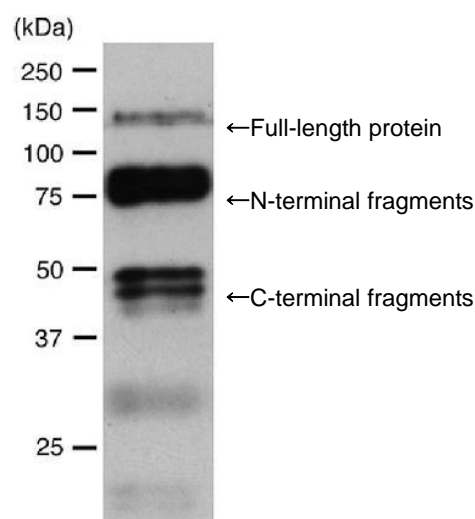
Three SulfFP antibodies are available;

KM108: Specifically reacts with the rat SulfFP1

KM109: Specifically reacts with an N-terminal fragment of rat SulfFP2

KM110: Specifically reacts with a C-terminal fragment of rat SulfFP2

Package Size	50 $\mu$ g (200 $\mu$ L/vial)
Format	Rabbit polyclonal antibody (0.25mg/mL)
Buffer	PBS [containing 2% Block Ace as a stabilizer, 0.1%Proclin as a bacteriostat]
Storage	Store below $-20^{\circ}\text{C}$ Once thawed, store at $4^{\circ}\text{C}$ . Repeated freeze-thaw cycles should be avoided.
Purification method	This antibody was established from the serum of a rabbit immunized a rat SulfFP1, expressed as a recombinant protein in E. coli. Purified by Protein G affinity chromatography.
Working dilution	For Western blotting: 1.0 $\mu$ g/ml



### Western blotting

Sample:

SulfFP1-transfected HEK293 cells supernatants

Preparation of antibodies and instruction:

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### **【Reference】**

1. Ohto T. et al. :  
Identification of a novel nonlysosomal sulphatase expressed in the floor plate, choroid plexus and cartilage.  
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QSulf1 remodels the 6-O sulfation states of cell surface heparan sulfate proteoglycans to promote Wnt signaling.  
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3. Morimoto-Tomita M. et al. :  
Cloning and characterization of two extracellular heparin-degrading endosulfatases in mice and humans.  
J Biol Chem. 2002 Dec 20;277(51):49175-85.
4. Dhoot GK. et al. :  
Regulation of Wnt signaling and embryo patterning by an extracellular sulfatase.  
Science. 2001 Aug 31;293(5535):1663-6.

#### **Manufacturer**



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