Trans Genic Inc.

Code No.KM109

For research use only

# Anti Rat SulfFP2/sulf-2 Polyclonal Antibody

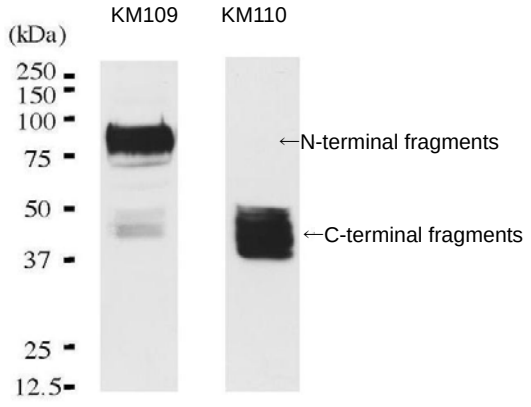
Heparan sulfate and heparin play key roles in the binding of many growth and differentiation factors, and in signaling by other factors. In view of SulfFP's ability to modify the sulfation of heparan sulfate outside the cell, SulfFPs have been classified as new members of sulfatase family. The SulFP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

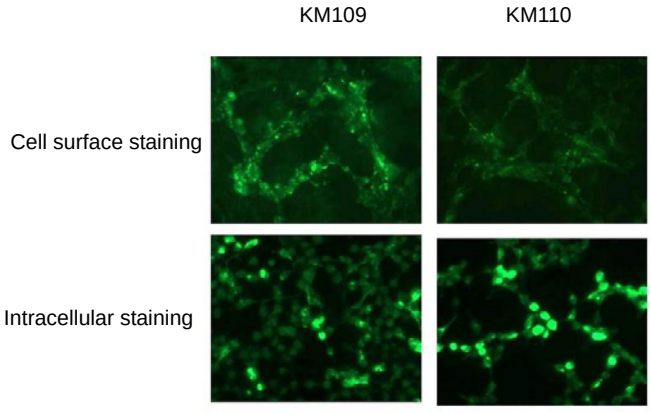
SulfFP1 modifies the interaction between heparin binding proteins and the carbohydrate side-chain of heparan sulfatate, and has a key role in regulating FGF and Wnt signaling. Changes in SulfFP1 levels in cancer cells have focused attention on SulfFP as a targeting molecule. SulfFP2 is a related enzyme resembling SulfFP1 in structure and activity.

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 | 25µg (100µL/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℃<br>Once thawed, store at 4℃. Repeated freeze-thaw cycles should be avoided. |
| Purification method | This antibody was established from the serum of a rabbit immunized with a N-terminal fragment of rat SulfFP2 (421-564 a.a.), expressed as a recombinant protein in E. coli. Purified by Protein G affinity chromatography. |
| Working dilution | For Western blotting: 1.0µg/ml<br>For Immnocytochemistry: 8.0µg/ml |




Western blotting
Sample: SulfFP2-transfected HEK293 cells supernatants

Immnocytochemistry
Sample: SulfFP2-transfected HEK293 cells

Preparation of antibodies and instruction:
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【Reference】


1. Nagamine S. et al. :
   Expression of a heparan sulfate remodeling enzyme, heparan sulfate 6-O-endosulfatase sulfatase FP2, in the rat nervous system.
   Brain Res Dev Brain Res. 2005 Oct 6;159(2):135-43.
2. 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.
3. Ai X. et al. :
   Substrate Specificity and Domain Functions of Extracellular Heparan Sulfate 6-O-Endosulfatases, QSulf1 and QSulf2.
   J Biol Chem. 2006 Feb 24;281(8):4969-76.



**Manufacturer**

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