

# Anti-Kallistatin/Serpina4 Antibody

Catalog # ABO10952

## Product Information

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|--------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC-P                                                                                           |
| <b>Primary Accession</b> | <a href="#">P29622</a>                                                                              |
| <b>Host</b>              | Rabbit                                                                                              |
| <b>Reactivity</b>        | Human                                                                                               |
| <b>Clonality</b>         | Polyclonal                                                                                          |
| <b>Format</b>            | Lyophilized                                                                                         |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Kallistatin(SERPINA4) detection. Tested with WB, IHC-P in Human. |

**Reconstitution** Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

## Additional Information

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|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>                  | 5267                                                                                                                          |
| <b>Other Names</b>              | Kallistatin, Kallikrein inhibitor, Peptidase inhibitor 4, PI-4, Serpin A4, SERPINA4, KST, PI4                                 |
| <b>Calculated MW</b>            | 48542                                                                                                                         |
| <b>Application Details</b>      | Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat<br>Western blot, 0.1-0.5 µg/ml, Human            |
| <b>Subcellular Localization</b> | Secreted.                                                                                                                     |
| <b>Tissue Specificity</b>       | Expressed by the liver and secreted in plasma.                                                                                |
| <b>Source</b>                   | Eukaryota                                                                                                                     |
| <b>Protein Name</b>             | Kallistatin                                                                                                                   |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg Na <sub>3</sub> N. |
| <b>Immunogen</b>                | A synthetic peptide corresponding to a sequence at the C-terminus of human Kallistatin(384-401aa AIKFFSAQTNRHILRFNR).         |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                  |
| <b>Cross Reactivity</b>         | No cross reactivity with other proteins                                                                                       |
| <b>Storage</b>                  | At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also                                              |

## Sequence Similarities

be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.  
Belongs to the serpin family.

## Protein Information

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**Name** SERPINA4

**Synonyms** KST, PI4

**Function** Inhibits human amidolytic and kininogenase activities of tissue kallikrein. Inhibition is achieved by formation of an equimolar, heat- and SDS-stable complex between the inhibitor and the enzyme, and generation of a small C-terminal fragment of the inhibitor due to cleavage at the reactive site by tissue kallikrein.

**Cellular Location** Secreted.

**Tissue Location** Expressed by the liver and secreted in plasma.

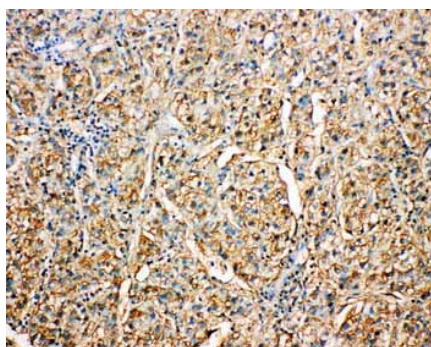
## Background

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Serpina 4, also called Kallistatin, PI4 or TISSUE KALLIKREIN INHIBITOR, is a protein that in humans is encoded by the SERPINA4 gene. The serpina4 is a member of the serpin superfamily and represents a major inhibitor of human tissue kallikrein in the circulation. The SERPINA4 gene is localized to 14q32.13. The translated amino acid sequence of serpina4 matches the protein sequence and shares 44 to 46% sequence identity with other serpin family members. Kallistatin is a serine proteinase inhibitor (serpin) and a heparin-binding protein. It is localized in vascular smooth muscle cells and endothelial cells of blood vessels, suggesting that it may be involved in the regulation of vascular function. And serpina4 also plays a role in neointima hyperplasia.

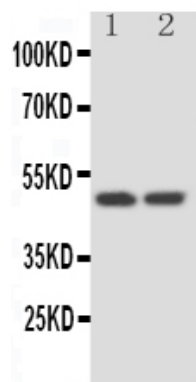
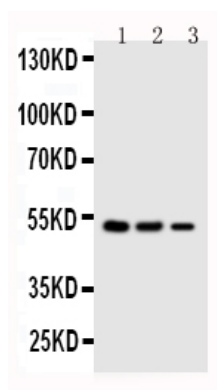
## Images

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Anti-Kallistatin antibody, ABO10952, IHC(P) IHC(P): Human Liver Cancer Tissue

Anti-Kallistatin antibody, ABO10952, Western blotting  
Lane 1: SMMC Cell Lysate  
Lane 2: COLO320 Cell Lysate  
Lane 3: JURKAT Cell Lysate



Anti-Kallistatin antibody, ABO10952, Western blotting  
Lane 1: HELA Cell Lysate  
Lane 2: SKOV Cell Lysate

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