



# ANT3 Monoclonal Antibody

|                    |  |
|--------------------|--|
| Catalog No         | BYmab-05325  |
| Isotype            | IgG  |
| Reactivity         | Human;Rat;Mouse;   |
| Applications       | WB   |
| Gene Name          | SERPINC1 AT3 PRO0309   |
| Protein Name       | Antithrombin-III (ATIII) (Serpin C1)   |
| Immunogen          | Synthesized peptide derived from human protein . at AA range: 1-80   |
| Specificity        | ANT3 Monoclonal Antibody detects endogenous levels of protein.   |
| Formulation        | Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.   |
| Source             | Monoclonal, Mouse,IgG  |
| Purification       | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.   |
| Dilution           | WB 1:500-2000  |
| Concentration      | 1 mg/ml  |
| Purity             | ≥90%   |
| Storage Stability  | -20°C/1 year   |
| Synonyms           |  |
| Observed Band      | 51kD   |
| Cell Pathway       | Secreted, extracellular space.   |
| Tissue Specificity | Found in plasma.   |
| Function           | disease:Defects in SERPINC1 are the cause of antithrombin-III deficiency (AT3D) [MIM:107300]. AT3D is an important risk factor for hereditary thrombophilia, a hemostatic disorder characterized by a tendency to recurrent thrombosis. AT3D is classified into 4 types. Type I: characterized by a 50% decrease in antigenic and functional levels. Type II: has defects affecting the thrombin-binding domain. Type III: alteration of the heparin-binding domain. Plasma AT-III antigen levels are normal in type II and III. Type IV: consists of miscellaneous group of unclassifiable mutations.,function:Most important serine protease inhibitor in plasma that regulates the blood coagulation cascade. AT-III inhibits thrombin as well as factors IXa, Xa and XIa. Its inhibitory activity is greatly enhanced in the presence of heparin.,mass spectrometry: PubMed:7734359,mass spectrometry:Variant Thr-414 PubMed:773 |

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**Background**

The protein encoded by this gene is a plasma protease inhibitor and a member of the serpin superfamily. This protein inhibits thrombin as well as other activated serine proteases of the coagulation system, and it regulates the blood coagulation cascade. The protein includes two functional domains: the heparin binding-domain at the N-terminus of the mature protein, and the reactive site domain at the C-terminus. The inhibitory activity is enhanced by the presence of heparin. More than 120 mutations have been identified for this gene, many of which are known to cause antithrombin-III deficiency. [provided by RefSeq, Jul 2009],

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images

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