

## Mouse anti-Human CD142 Monoclonal Antibody | anti-CD142 antibody

CD142 (CD142 Antigen, Coagulation Factor III, F3, Tissue Factor, TF, TFA, Thromboplastin) (Biotin)

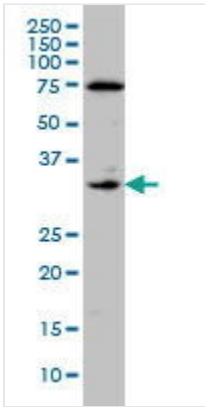
|                              |                      |                            |                                                                 |
|------------------------------|----------------------|----------------------------|-----------------------------------------------------------------|
| CATALOG #<br><b>AAA24750</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA, Immunoprecipitation, Western Blot</b> |
|------------------------------|----------------------|----------------------------|-----------------------------------------------------------------|

### PRODUCT SYNONYMS

CD142; Monoclonal Antibody; CD142 (CD142 Antigen; Coagulation Factor III; F3; Tissue Factor; TF; TFA; Thromboplastin) (Biotin); anti-CD142 antibody

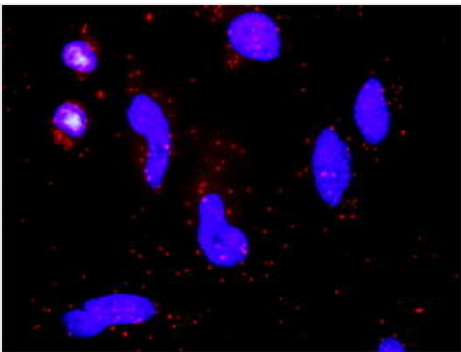
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Reactivity                                      | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Isotype                                         | IgG2a,k                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Clone Number                                    | 4G4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Specificity                                     | Recognizes human F3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Purity/Purification                             | Purified by Protein A Affinity Chromatography.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Form/Format                                     | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Applicable Applications for anti-CD142 antibody | ELISA, IP (Immunoprecipitation), WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Application Notes                               | Applications are based on unconjugated antibody.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Immunogen                                       | Partial recombinant corresponding to aa45-154 from human F3 (AAH11029) with GST tag. MW of the GST tag alone is 26kD.                                                                                                                                                                                                                                                                                                                                                                              |
| Immunogen Sequence                              | TWKSTNFKTILEWEPKPVNQVYTVQISTKSGDWKSKCFYTTDTECDLTDEIVKDVKQTYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNLGQPT                                                                                                                                                                                                                                                                                                                                                                                               |
| Conjugate                                       | Biotin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Preparation and Storage                         | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in PBS with 0.1% BSA, 0.1% Triton X-100, and 0.1% Tween-20. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |



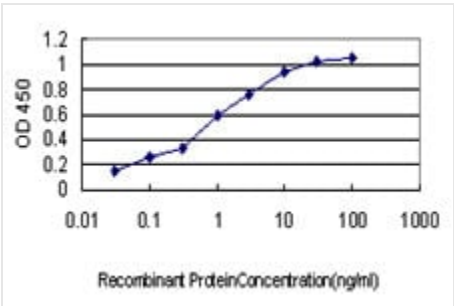
WB (Western Blot)

F3 monoclonal antibody, Western Blot analysis of F3 expression in A-431.



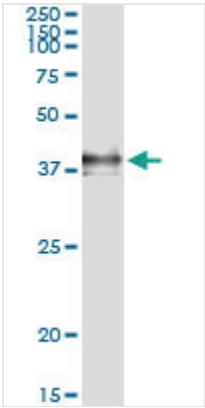
Application Data

Proximity Ligation Analysis (PLA) of protein-protein interactions between F7 and F3. HeLa cells were stained with F7 rabbit purified polyclonal 1:1200 and F3 mouse monoclonal antibody 1:50. Signals were detected by 30 Detection Kit 613 (red), and nuclei were counterstained with DAPI (blue). Each red dot represents the detection of protein-protein interaction complex



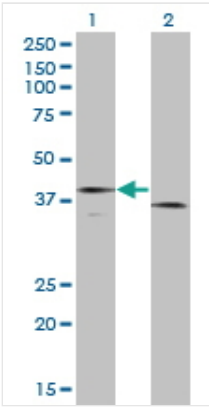
Application Data

Detection limit for recombinant GST tagged F3 is ~0.03ng/ml as a capture antibody.



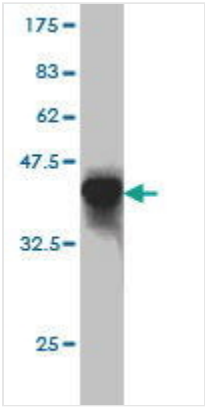
IP (Immunoprecipitation)

Immunoprecipitation of F3 transfected lysate using F3 monoclonal antibody and Protein A Magnetic Bead and immunoblotted with F3 rabbit polyclonal antibody.



WB (Western Blot)

Western Blot analysis of F3 expression in transfected 293T cell line by F3 monoclonal antibody. Lane 1: F3 transfected lysate (33.1kD). Lane 2: Non-transfected lysate.



WB (Western Blot)

Western Blot detection against Immunogen (37.84kD).

ADDITIONAL INFORMATION

Related Product Information for anti-CD142 antibody

CD142, a 45kD cell surface glycoprotein which is also known as Tissue Factor. CD142 expression can be induced on monocytes, macrophages and endothelial cells by various stimuli including interleukin 1, tumor necrosis factor and endotoxin. CD142 initiates the blood clotting cascade by binding coagulation Factor VIIa, which activates Factor IX or Factor X by specific limited proteolysis. CD142 also plays an important role in inflammation, angiogenesis, and the pathophysiology of atherosclerosis and cancer.

|                                                   |                                 |
|---------------------------------------------------|---------------------------------|
| Product Categories/Family for anti-CD142 antibody | Antibodies; Coagulation Factors |
|---------------------------------------------------|---------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                           |
|----------------------------------|---------------------------------------------------------------------------|
| NCBI GI #                        | 15029642                                                                  |
| NCBI GeneID                      | 2152                                                                      |
| Molecular Weight                 | 27,145 Da                                                                 |
| NCBI Official Full Name          | Homo sapiens coagulation factor III (thromboplastin, tissue factor), mRNA |
| NCBI Official Synonym Full Names | coagulation factor III, tissue factor                                     |
| NCBI Official Symbol             | F3                                                                        |
| NCBI Official Synonym Symbols    | TF; TFA; CD142                                                            |
| NCBI Protein Information         | tissue factor                                                             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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 Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd142-antibody-clone-4g4-immunoprecipitation-western-blot-elisa/24750>