

#### DESCRIPTION

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| <b>Species Reactivity</b>                                                                                                                                                                               | Mouse                                                                                                              |
| <b>Specificity</b>                                                                                                                                                                                      | Detects mouse Coagulation Factor III/Tissue Factor in direct ELISAs and Western blots.                             |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Rat IgG <sub>2C</sub> Clone # 355220                                                                    |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from hybridoma culture supernatant                                                         |
| <b>Immunogen</b>                                                                                                                                                                                        | Mouse myeloma cell line NS0-derived recombinant mouse Coagulation Factor III<br>Ala29-Glu251<br>Accession # P20352 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm                                    |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                                                       |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |                                                                                                                    |

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

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|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

Coagulation Factor III/Tissue Factor (TF), also known as thromboplastin and CD142, is an integral membrane protein found in a variety of cell types. It functions as a protein cofactor/receptor of Coagulation Factor VII, which is synthesized in the liver and circulated in the plasma (1). Upon binding of TF, the inactive factor VII is rapidly converted into activated VIIa. The resulting 1:1 complex of VIIa and TF initiates the coagulation pathway and has also important coagulation-independent functions such as angiogenesis (2). Synthesized as a 294 amino acid precursor, mouse TF consists of a signal peptide (residues 1 - 28) and the mature chain (residues 29 - 294). As a type I membrane protein, it contains a transmembrane region (residues 252 - 274) and a cytoplasmic tail (residues 275 - 294) (3, 4). The purified recombinant mouse TF corresponds to the ectodomain (residues 29 - 251) and is potent in activating thermolysin-processed recombinant mouse Coagulation Factor VII (R&D Systems, Catalog # 3305-SE) under the conditions described in the Activity Assay Protocol.

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