Datasheet for ABIN708086

anti-Tissue factor antibody (AA 32-100)

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Overview

Quantity:	100 µL
Target:	Tissue factor (F3)
Binding Specificity:	AA 32-100
Reactivity:	Human, Mouse, Rat, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Tissue factor antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CD142
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Pig, Rat
Predicted Reactivity:	Dog,Cow,Horse,Rabbit,Guinea Pig
Purification:	Purified by Protein A.

Target Details

Target:	Tissue factor (F3)

Target Details

Alternative Name:	CD142 (F3 Products)
Background:	Synonyms: TF, TFA, CD142, Tissue factor, Coagulation factor III, Thromboplastin, F3 Background: Initiates blood coagulation by forming a complex with circulating factor VII or VIIa. The [TF:VIIa] complex activates factors IX or X by specific limited protolysis. TF plays a role in normal hemostasis by initiating the cell-surface assembly and propagation of the coagulation protease cascade.
Gene ID:	2152
UniProt:	P13726
Pathways:	Positive Regulation of Endopeptidase Activity, Smooth Muscle Cell Migration, Platelet-derived growth Factor Receptor Signaling

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

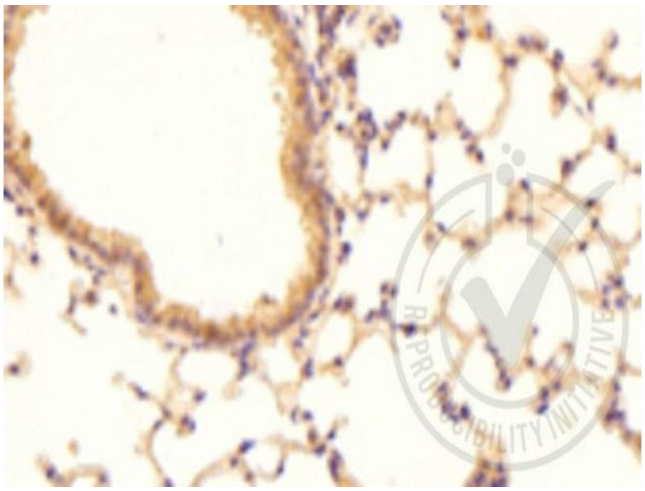
Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Handling

Expiry Date:	12 months

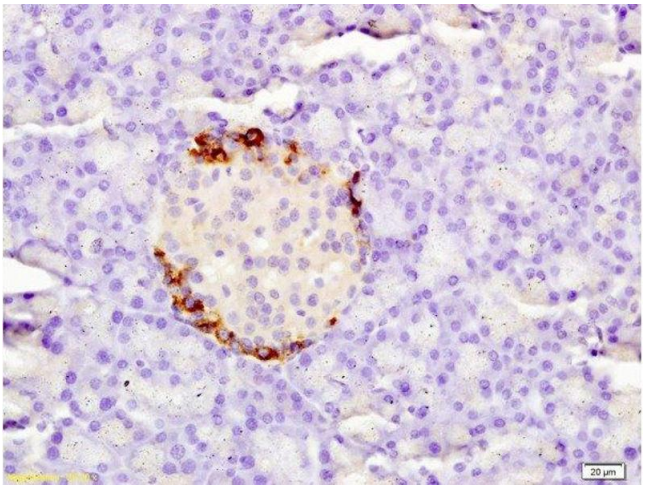
Publications

Product cited in:	Fletcher, Das, Gadye, Street, Baudhuin, Wagner, Cole, Flores, Choi, Yosef, Purdom, Dudoit, Risso, Ngai: "Deconstructing Olfactory Stem Cell Trajectories at Single-Cell Resolution." in: **Cell stem cell**, Vol. 20, Issue 6, pp. 817-830.e8, (2017) (PubMed). Kim, Yoo, Gu, Kim: "Histones Induce the Procoagulant Phenotype of Endothelial Cells through Tissue Factor Up-Regulation and Thrombomodulin Down-Regulation." in: **PLoS ONE**, Vol. 11, Issue 6, pp. e0156763, (2016) (PubMed). Yoo, Kim, Gu, Lee, Lee, Hwang, Hwang, Kim, Kim: "Porcine endothelium induces DNA-histone complex formation in human whole blood: a harmful effect of histone on coagulation and endothelial activation." in: **Xenotransplantation**, Vol. 23, Issue 6, pp. 464-471, (2016) (PubMed). Gleeson, Martin, Ali, Kumar, Pillai, Kumar, OSullivan, Whelan, Stocca, Khider, Barry, OBrien, Caplice: "Bone Marrow-Derived Mesenchymal Stem Cells Have Innate Procoagulant Activity and Cause Microvascular Obstruction Following Intracoronary Delivery: Amelioration by Antithrombin Therapy." in: **Stem cells (Dayton, Ohio)**, (2015) (PubMed). Tian, Salsbery, Wang, Yuan, Yang, Zhao, Wu, Zhang, Konkle, Thiagarajan, Li, Zhang, Dong: "Brain-derived microparticles induce systemic coagulation in a murine model of traumatic brain injury. " in: **Blood**, (2015) (PubMed). There are more publications referencing this product on: Product page



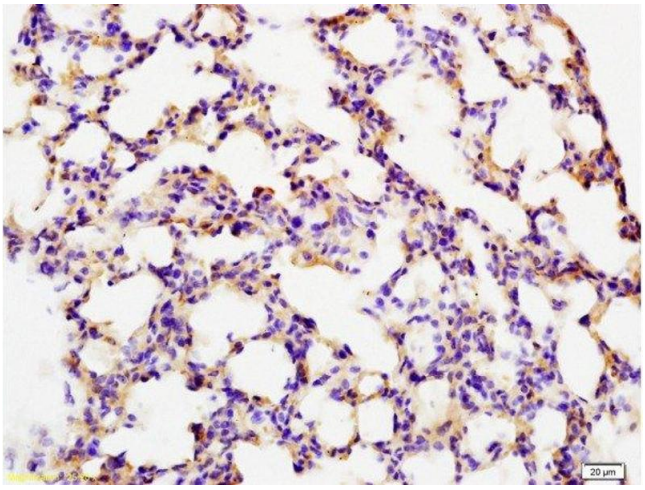
Immunohistochemistry

Image 1. Independently Validated Antibody, image provided by Science Direct, badge number 029589:Formalin-fixed and paraffin embedded mouse lung labeled with Anti-CD142 Polyclonal Antibody, Unconjugated (ABIN708086) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin embedded rat pancreas labeled with Anti Tissue factor/CD142/F3 Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Formalin-fixed and paraffin embedded rat lung labeled with Anti Tissue factor/CD142/F3 Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining.

Please check the product details page for more images. Overall 6 images are available for ABIN708086.

Validation report #029589 for Immunohistochemistry (IHC)

Successfully validated (Immunohistochemistry (IHC))

by Reveal Biosciences

Report Number: 029589

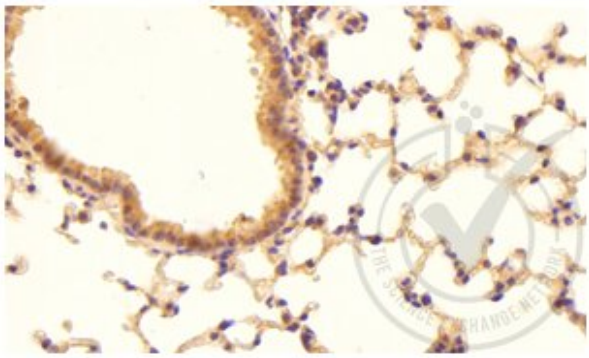
Date: Feb 07 2014

Lot Number:	980886W
Method validated:	Immunohistochemistry (IHC)
Positive Control:	Mouse lung tissue
Negative Control:	Mouse brain tissue
Notes:	Coagulation Factor III (thromboplastin, Tissue Factor) (F3) staining is observed in positive control tissue and not in negative control tissue.
Primary Antibody:	- Antigen: Coagulation Factor III (thromboplastin, Tissue Factor) (F3) - Catalog number: ABIN708086 - Supplier: Bioss - Supplier Catalog Number: bs-4690r - Lot number: 120224
Secondary Antibody:	- Antibody: Bond Polymer Refine Detection Kit - Catalog number: DS9800 - Supplier: Leica Biosystems - Lot number: 24144
Isotype:	- Antibody: Rabbit IgG isotype control - Catalog number: I5006 - Supplier: Sigma - Lot number: SLBD3695V
Controls:	• Positive control: Wild type mouse lung (specimen known to contain the target protein) from Explora BioLabs. • Negative Control: Wild type mouse brain (specimen known to not contain the target protein) from Explora BioLabs. • Primary antibody isotype control: Wild type mouse lung treated with primary antibody isotype control instead of the primary antibody. • Secondary antibody only control: Wild type mouse lung treated with secondary antibody only (no primary antibody).
Protocol:	• Immunohistochemistry was performed on a Leica Bond automated immunostainer. • Sections were deparaffinized with Novocastra Bond Dewax Solution and rehydrated into Leica Bond Wash Buffer. • Sections were heated to 98 °C for 20 minutes in 10 mM citrate buffer pH 9.0 (ER1; Leica) for antigen retrieval. • Sections were blocked in 3 % casein plus 0.1 % Triton-X100 for 10 minutes at room temperature. • Sections were washed x 3 in Leica Bond Wash Buffer.

- Sections were incubated with primary antibody diluted 1:200 in Universal Antibody Dilution Buffer (Electron Microscopy Sciences, 25886-05) for 15 minutes at room temperature.
- Sections were washed x 3 in Leica Bond Wash Buffer.
- Sections were incubated with Leica Bond Polymer for 8 minutes at room temperature.
- Sections were washed x 4 in Leica Bond Wash Buffer.
- Sections were washed x 1 in Distilled Water.
- Sections were incubated with Peroxide Block (Leica) for 10 min to block endogenous peroxidase.
- Sections were washed x 4 in Leica Bond Wash Buffer.
- Sections were incubated with DAB chromogenic substrate (Leica) for 10 min at RT.
- Sections were washed x 3 in Distilled Water.
- Sections were counterstained with hematoxylin (Leica) for 2 minutes.
- Sections were washed x 1 in Distilled Water.
- Sections were washed x 1 in Leica Bond Wash Buffer.
- Sections were washed x 1 in Distilled Water.
- Sections were dehydrated, mounted and photographed under a light microscope.

Experimental Notes: None notes.

Images for Validation report #029589

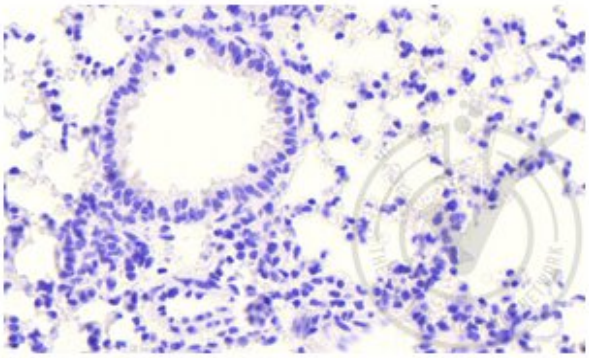


Validation image no. 1 for anti-Coagulation Factor III (thromboplastin, Tissue Factor) (F3) (AA 32-100) antibody (ABIN708086)

Figure 1: Mouse lung tissue stained with anti-F3 (brown) and counterstained in blue.

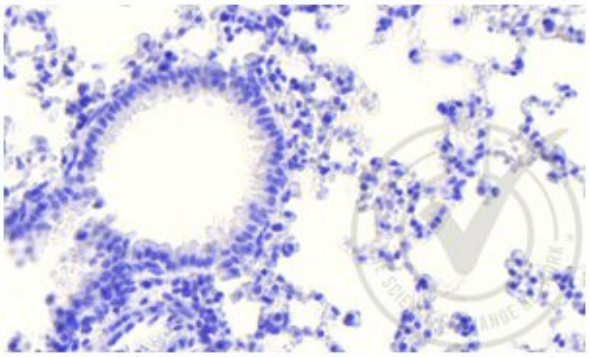
Validation image no. 2 for anti-Coagulation Factor III (thromboplastin, Tissue Factor) (F3) (AA 32-100) antibody (ABIN708086)

Figure 2: Mouse brain tissue stained with anti-F3 (brown) and counterstained in blue.



Validation image no. 3 for anti-Coagulation Factor III (thromboplastin, Tissue Factor) (F3) (AA 32-100) antibody (ABIN708086)

Figure 3: Mouse lung tissue stained with isotype control antibody (brown) and counterstained in blue.



Validation image no. 4 for anti-Coagulation Factor III (thromboplastin, Tissue Factor) (F3) (AA 32-100) antibody (ABIN708086)

Figure 4: Mouse lung tissue stained with secondary antibody only (brown) and counterstained in blue.