Product datasheet

Anti-tPA/PLAT Antibody

Catalog Number: *A02965-1*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Special NO.1, International Enterprise Center,
2nd Guanshan Road, Wuhan, China
Web: www.boster.com.cn ***Phone:*** +86 027-67845390 ***Fax:*** +86 027-67845390 ***Email:*** boster@boster.com.cn

Basic Information

Product Name	Anti-tPA/PLAT Antibody
Gene Name	PLAT
Source	Rabbit
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, IHC-F, ICC, FCM
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence of human PLAT(QKDVPGVYTKVTNYLDWIRDNMRP).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	63-69KD
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Immunohistochemistry in frozen section: 1:50-400 Immunocytochemistry in fixed cells: 1:50-400 Flow cytometry (FCM): 1-3 μg/1x10^6 cells (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

PLAT is also known as tPA. This gene encodes tissue-type plasminogen activator, a secreted serine protease which converts the proenzyme plasminogen to plasmin, a fibrinolytic enzyme. Tissue-type plasminogen activator is synthesized as a single chain which is cleaved by plasmin to a two chain disulfide linked protein. This enzyme plays a role in cell migration and tissue remodeling. Increased enzymatic activity causes hyperfibrinolysis, which manifests as excessive bleeding; decreased activity leads to hypofibrinolysis which can result in thrombosis or embolism. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms.

Selected Validation Data

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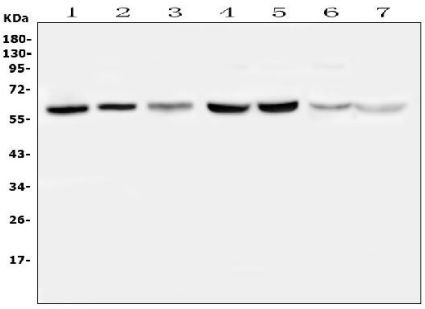

Figure 1. Western blot analysis of PLAT using anti-PLAT antibody (A02965-1). Lane 1: human Hela whole cell lysates,Lane 2: human U2OS whole cell lysates,Lane 3: human U-87MG whole cell lysates,Lane 4: rat liver tissue lysates,Lane 5: rat kidney tissue lysates,Lane 6: mouse liver tissue lysates,Lane 7: mouse kidney tissue lysates. anti-PLAT antigen affinity purified polyclonal antibody (Catalog # A02965-1)probed with a goat anti-rabbit IgG-HRP secondary antibody The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) . A specific band was detected for PLAT at approximately 63-69KD. The expected band size for PLAT is at 63KD.

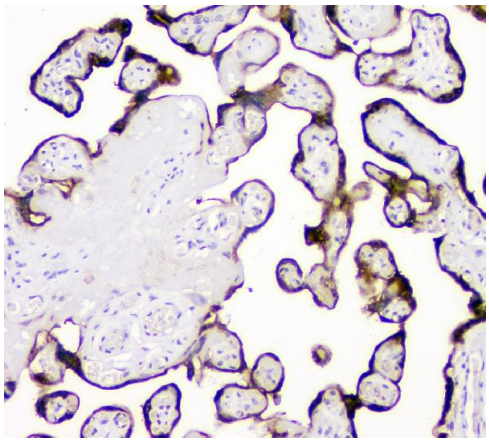

Figure 2. IHC analysis of PLAT using anti-PLAT antibody (A02965-1).PLAT was detected in paraffin-embedded section of human placenta tissue. anti-PLAT Antibody (A02965-1) . Biotinylated goat anti-rabbit IgG was used as secondary antibody . The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

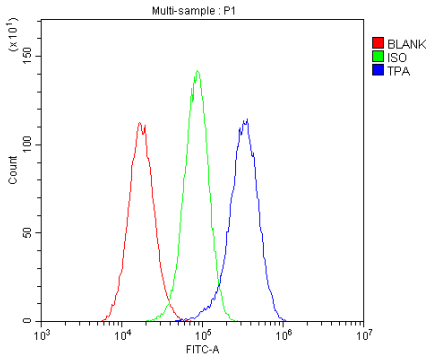

Figure 3. Flow Cytometry analysis of U251 cells using anti-PLAT antibody (A02965-1).Overlay histogram showing U251 cells stained with A02965-1 (Blue line).anti-PLAT Antibody (A02965-1,1µg/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10µg/1x10^6 cells) was used as secondary antibody . Isotype control antibody (Green line) was rabbit IgG (1µg/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.