

Basic Information

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| Product Name | Anti-tPA/PLAT Antibody |
| Gene Name | PLAT |
| Source | Rabbit |
| Isotype | IgG |
| Species Reactivity | human |
| Tested Application | WB |
| Contents | 500 ug/ml antibody with PBS , 0.02% Na ₂ S ₂ O ₃ , 1 mg BSA and 50% glycerol. |
| Immunogen | E.coli-derived human TPA recombinant protein (Position: H366-P562). Human TPA shares 83% and 84% amino acid (aa) sequence identity with mouse and rat TPA, respectively. |
| concentration | 500 ug/ml |
| Purification | Immunogen affinity purified. |
| Observed MW | 63-69KD |
| Dilution Ratios | Western blot (WB):1:500-2000 |

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C 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

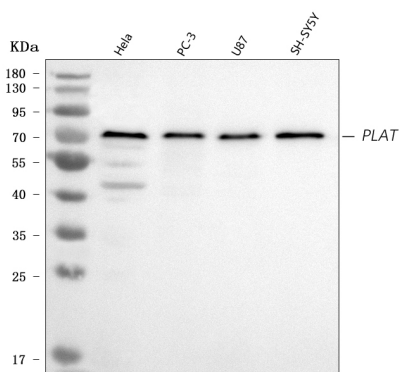


Figure 1. Western blot analysis of anti- PLAT antibody (PB0359). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: human Hela whole cell lysates,

Lane 2: human PC-3 whole cell lysates,

Lane 3: human U87 whole cell lysates,

Lane 4: human SH-SY5Y whole cell lysates.

Use rabbit anti- PLAT 1:1000, 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.