

## Goat anti-human tPA IgG

Product No. ADG76

### Description

Tissue-type plasminogen activator (tPA) is a serine protease found on endothelial cells, the cells that line the blood vessels. As an enzyme, it catalyzes the conversion of plasminogen to plasmin, the major enzyme responsible for clot breakdown.

The antibody is derived from the sera of goats immunized with recombinant human tPA. The IgG fraction of immunserum was isolated by affinity chromatography on Protein G-Sepharose.

### Properties

The antibody binds to both single-chain and two-chain tPA, it does not bind to uPA (urokinase-type plasminogen).

### Presentation

Screw-capped clear glass vial containing 1.0 mg of purified antibody lyophilized from PBS, 200 mM mannitol, pH 7.5.

### Reconstitution

Add 1 mL of filtered deionized or distilled water to the vial. Agitate gently for 5 minutes.

### Storage

Store unopened vials at 2 - 8 °C until the expiration date shown on label.

Store reconstituted antibody in aliquots at -20 °C or colder. Stable for at least 6 months; avoid repeated freeze and thaw cycles.

### Applications

#### ELISA

The antibody can be used as capture or detection antibody in ELISAs.

#### Immunohistochemistry

The antibody is reactive for human tPA in acetone fixed frozen and paraffin-embedded tissue sections.

#### Western Blot Analysis

The antibody is suitable for Western blot analysis of tPA. Generally, a single band at approximately 70 kDa is visualized under non-reducing conditions and 2 bands at approximately 40 kDa and 30 kDa (the heavy chain and light chain of tPA) are visualized under reducing conditions.

### References

Epitopes of components of the plasminogen activation system are re-exposed in formalin-fixed paraffin sections by different retrieval techniques. Ferrier CM, et al., J Histochem Cytochem. 1998 Apr;46(4):469-76.

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The datasheet is for information purposes only. The current datasheet will be enclosed with product shipment.

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