

AP20580PU-N**Polyclonal Antibody to uPA / PLAU - Aff - Purified****Alternate names:**

U-plasminogen activator, Urokinase, Urokinase-type plasminogen activator, Urokinase-type plasminogen activator chain B, Urokinase-type plasminogen activator long chain A, Urokinase-type plasminogen activator short chain A

Quantity:

0.1 mg

Concentration:

1.0 mg/ml

Background:

uPA (urokinase-type plasminogen activator) and tPA (tissue plasminogen activator) are serine proteases that are members of the trypsin family, and they are essential to the intrinsic coagulation system. tPA is primarily involved in fibrinolysis, whereas uPA principally mediates cell migration and tissue remodeling processes. uPA and tPA are responsible for cleaving plasminogen, a large serum β -globulin that is deposited on the Fibrin strands within a thrombus. uPA and tPA preferentially target plasminogen at the Arg-Val bond to produce plasmin (also designated fibrinolysin), which is a trypsin-like enzyme that acts on Arg-Lys bonds in Fibrin and Fibrinogen and contributes to the systematic activation of the coagulation cascade. uPA and tPA each consist of two chains that are designated A and B. The A chain of uPA can be cleaved, resulting in low and high molecular mass forms. uPA and tPA are regulated by the serpin family members PAI-1 and PAI-2, which are serine proteinase inhibitors that complex with uPA, tPA and other targeted proteinases and then slowly disassociate to produce cleaved species that fold into stable inactive conformations.

Uniprot ID:[P00749](#)**NCBI:**[NP_001138503.1](#)**GeneID:**[5328](#)**Host:**

Rabbit

Immunogen:

Synthetic peptide, corresponding to amino acids 211-260 of Human uPA.

Format:**State:** Liquid purified Ig fraction**Purification:** Affinity chromatography (> 95% (by SDS-PAGE)**Buffer System:** Phosphate buffered saline (PBS), pH 7.2.**Preservatives:** 0.05% sodium azide**Applications:****Immunohistochemistry on paraffin sections:** 1/50 - 1/200.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Molecular Weight:

~ 48 kDa

Specificity:

This antibody detects endogenous levels of uPA protein.
(region surrounding Leu239)

Species Reactivity:**Tested:** Human.**Storage:**

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Pictures:

Immunohistochemistry (IHC) analyzes of uPA antibody (Cat.-No.: AP20580PU-N) in paraffin-embedded human brain tissue.

