ARG63849
anti-Urokinase / uPA antibody

Package: 100 µg, 50 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes Urokinase / uPA
Tested Reactivity	Hu
Tested Application	WB
Specificity	This antibody is expected to recognize both reported isoforms.
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	Urokinase / uPA
Species	Human
Immunogen	C-HFLPWIRSHTKEEN
Conjugation	Un-conjugated
Alternate Names	ATF; uPA; U-plasminogen activator; BDPLT5; EC 3.4.21.73; QPD; URK; Urokinase-type plasminogen activator; u-PA; UPA

Application Instructions

Application table

Application	Dilution
WB	0.3 - 1 µg/ml

Application Note

WB: Recommend incubate at RT for 1h. Approx 48 kDa band observed in lysates of human kidney fibroblast cell line HEK293 (calculated MW of 48.5 kDa according to NP_002649.1). A minor band was also consistently observed at appox 35 kDa. This band was successfully blocked by incubation with the immunising peptide, and is consistent with the B chain of Cathepsin B-mediated cleavage product of PLAU (Kobayashi et al, J Biol Chem. 1991 Mar 15;266(8):5147-52; PMID: 1900515).

* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

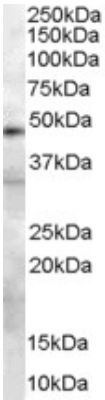
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

	and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 5328 Human Swiss-port # P00749 Human
Gene Symbol	PLAU
Gene Full Name	plasminogen activator, urokinase
Background	This gene encodes a serine protease involved in degradation of the extracellular matrix and possibly tumor cell migration and proliferation. A specific polymorphism in this gene may be associated with late-onset Alzheimer's disease and also with decreased affinity for fibrin-binding. This protein converts plasminogen to plasmin by specific cleavage of an Arg-Val bond in plasminogen. Plasmin in turn cleaves this protein at a Lys-Ile bond to form a two-chain derivative in which a single disulfide bond connects the amino-terminal A-chain to the catalytically active, carboxy-terminal B-chain. This two-chain derivative is also called HMW-uPA (high molecular weight uPA). HMW-uPA can be further processed into LMW-uPA (low molecular weight uPA) by cleavage of chain A into a short chain A (A1) and an amino-terminal fragment. LMW-uPA is proteolytically active but does not bind to the uPA receptor. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2009]
Function	Specifically cleaves the zymogen plasminogen to form the active enzyme plasmin. [UniProt]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Metabolism antibody; Neuroscience antibody
Calculated Mw	49 kDa
PTM	Phosphorylation of Ser-158 and Ser-323 abolishes proadhesive ability but does not interfere with receptor binding.
Cellular Localization	Secreted. [UniProt]

Images



ARG63849 anti-Urokinase / uPA antibody WB image

Western blot: 35 µg of 293 cell lysate (in RIPA buffer) stained with ARG63849 anti-Urokinase / uPA antibody at 0.3 µg/ml dilution and incubated at RT for 1 hour.