

Urokinase Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant fragment corresponding to a region within amino acids 191 and 431 of Urokinase (Uniprot ID#P00749)
Form	Liquid
Concentration	0.4 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 1% BSA, 20% glycerol
Contains	0.01% thimerosal
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2551990

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:3,000	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000	-
Immunocytochemistry (ICC/IF)	1:100	-

Product Specific Information

Recommended positive controls: H1299, HCT116, PC3 conditioned medium.

Predicted reactivity: Dog (82%), Pig (82%), Rabbit (86%), Sheep (81%).

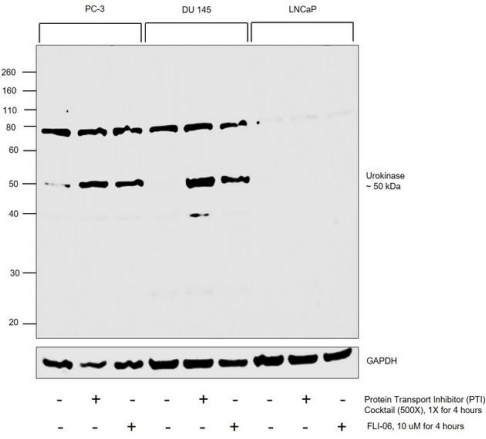
IHC notes, Requires antigen retrieval using heat mediated 10mM Citrate buffer (pH6.0) or Tris-EDTA buffer (pH8.0)

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For Urokinase Polyclonal Antibody

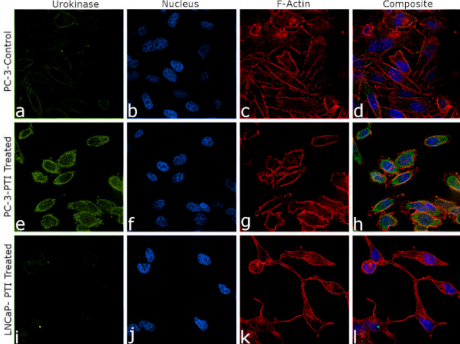
Urokinase Antibody (PA5-34638) in WB

Western blot was performed using Anti-Urokinase Polyclonal Antibody (Product # PA5-34638) and a 50 k Da band corresponding to Urokinase was observed in PC-3 and DU 145 but not in LNCaP upon treatment with the protein secretory blockers, PTI and FLI-06. Whole cell extracts (30 µg lysate) of PC-3 (Lane 1), PC-3 treated with PTI (1X for 4 hours) (Lane 2), PC-3 treated with FLI-06 (10uM for 4 hours) (Lane 3), DU 145 (Lane 4), DU 145 treated with PTI (1X for 4 hours) (Lane 5), DU 145 treated with FLI-06 (10uM for 4 hours) (Lane 6), LNCaP (Lane 7), LNCaP treated with PTI (1X for 4 hours) (Lane 8) and LNCaP treated with FLI-06 (10uM for 4 hours) (Lane 9) were electrophoresed using NuPAGE™ 10% Bis-Tris Protein Gel (Product # NP0301BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). ECL detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005). Entrapment of Urokinase using PTI and FLI-06 increases intracellular accumulation in PC-3 and DU 145 but not in LNCaP which is reported to be negative.



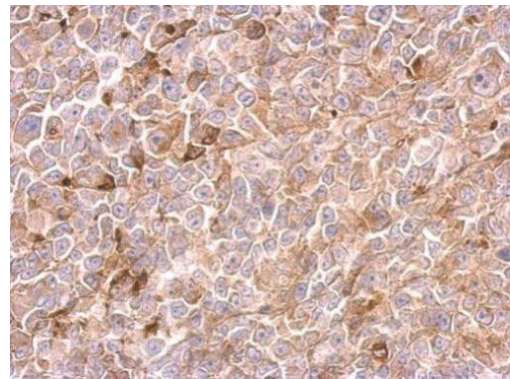
Urokinase Antibody (PA5-34638) in ICC/IF

Immunofluorescence analysis of Urokinase was performed using 70% confluent log phase PC-3 and LNCaP, control and PTI treated, cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with Urokinase Polyclonal Antibody (Product # PA5-34638) at 1:100 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790), (1: 2000 dilution), for 45 minutes at room temperature (Panel a, e, i: Green). Nuclei (Panel b, f, j: Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c, g, k: Blue) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image of untreated PC-3 cells showing faint staining for Urokinase that is enhanced upon PTI treatment (Panel h). Panel i represents LNCaP cells showing no staining for Urokinase upon PTI treatment. The images were captured at 60X magnification.



Urokinase Antibody (PA5-34638) in IHC (P)

Urokinase Polyclonal Antibody detects PLAU protein at cytosol on H1299 xenograft by immunohistochemical analysis. Sample: Paraffin-embedded H1299 xenograft. Urokinase Polyclonal Antibody (Product # PA5-34638) dilution: 1:500. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.



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Western Blot (1)

Frontiers in immunology	Year
The uPA System Differentially Alters Fibroblast Fate and Profibrotic Ability in Skin Fibrosis.	2022
"Published figure using Urokinase polyclonal antibody (Product # PA5-34638) in Immunohistochemistry"	
Authors: Zou ML,Teng YY,Chen ZH,Liu SY,Jia Y,Zhang KW,Wu JJ,Yuan ZD,Tang XY,Yu S,Ye JX,Li X,Zhou XJ,Yuan FL	

Immunohistochemistry (1)

Frontiers in immunology	Year
The uPA System Differentially Alters Fibroblast Fate and Profibrotic Ability in Skin Fibrosis.	2022
"Published figure using Urokinase polyclonal antibody (Product # PA5-34638) in Immunohistochemistry"	
Authors: Zou ML,Teng YY,Chen ZH,Liu SY,Jia Y,Zhang KW,Wu JJ,Yuan ZD,Tang XY,Yu S,Ye JX,Li X,Zhou XJ,Yuan FL	

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