

Product datasheet

Anti-Uroplakin III antibody [SFI-1] ab78196

★★★★★ [8 Abreviews](#) [9 References](#) [5 Images](#)

Overview

Product name	Anti-Uroplakin III antibody [SFI-1]
Description	Mouse monoclonal [SFI-1] to Uroplakin III
Host species	Mouse
Tested applications	Suitable for: IHC-P
Species reactivity	Reacts with: Rat, Human, Common marmoset
Immunogen	Synthetic peptide corresponding to an internal human Uroplakin III.
Positive control	Urothelial tissue, bladder.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.05% Proclin 300 Constituents: 1% BSA, 0.58% Sodium chloride, 0.1% Tween, 0.363% Tris Containing antibody stabilizer
Purity	Protein G purified
Clonality	Monoclonal
Clone number	SFI-1
Isotype	IgG1

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab78196 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★★ (7)	1/20 - 1/30. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Incubate 30 minutes at room temperature.

Target

Function

Component of the asymmetric unit membrane (AUM); a highly specialized biomembrane elaborated by terminally differentiated urothelial cells. May play an important role in AUM-cytoskeleton interaction in terminally differentiated urothelial cells. It also contributes to the formation of urothelial glycocalyx which may play an important role in preventing bacterial adherence.

Tissue specificity

Expressed in ureter.

Involvement in disease

Defects in UPK3A are a cause of renal adysplasia (RADYS) [MIM:191830]; also known as renal agenesis or renal aplasia. Renal agenesis refers to the absence of one (unilateral) or both (bilateral) kidneys at birth. Bilateral renal agenesis belongs to a group of perinatally lethal renal diseases, including severe bilateral renal dysplasia, unilateral renal agenesis with contralateral dysplasia and severe obstructive uropathy.

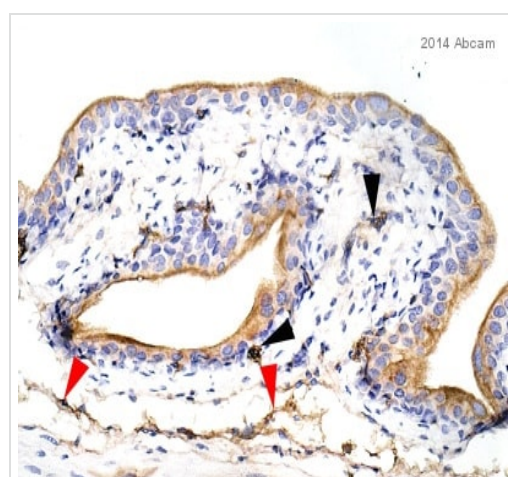
Sequence similarities

Belongs to the uroplakin-3 family.

Cellular localization

Endoplasmic reticulum membrane. Heterodimer formation with UPK1B is a prerequisite to exit out of the endoplasmic reticulum (ER).

Images



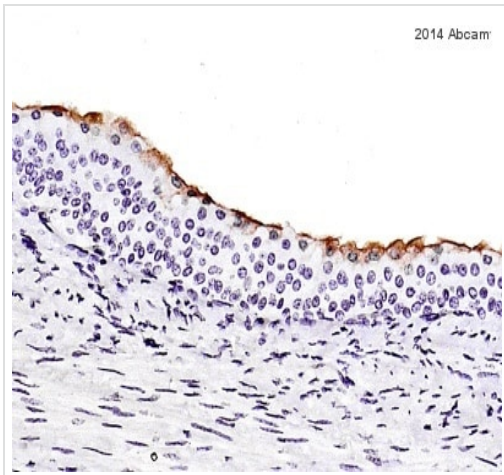
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Uroplakin III antibody [SFI-1] (ab78196)

This image is courtesy of an Abreview submitted by Carl Hobbs

ab78196 staining Uroplakin III in mouse bladder tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 1% BSA for 10 minutes at 21°C; antigen retrieval was by heat mediation in citric acid. Samples were incubated with primary antibody (1/600 in TBS/BSA/azide) for 16 hours at 21°C. A Biotin-conjugated goat anti-mouse IgG polyclonal (1/200) was used as the secondary antibody.

Positivity of only the luminal cytoplasm of the Umbrella cells is clear.

As this is a mouse primary antibody, endogenous IgG will also be visualised in the interstitial spaces (red arrowheads), in Plasma cells (black arrowheads) and also in blood vessels if the animal has not been perfused-washed/fixated.

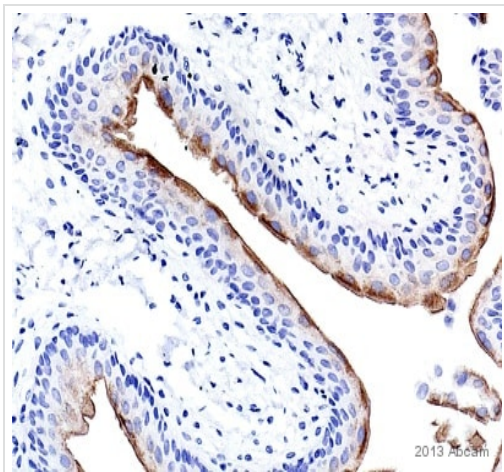


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Uroplakin III antibody [SFI-1] (ab78196)

This image is courtesy of Carl Hobbs (Kings College London, United Kingdom)

ab78196 staining Uroplakin III in cow ureter tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 1% BSA for 10 minutes at 21°C; antigen retrieval was by heat mediation in citric acid. Samples were incubated with primary antibody (1/300 in TBS/BSA/azide) for 16 hours at 21°C. A Biotin-conjugated goat anti-mouse IgG polyclonal (1/200) was used as the secondary antibody.

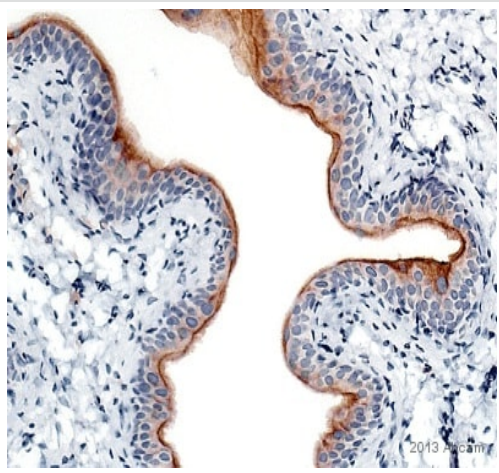
Image shows clear, strong labelling of the luminal membranes of the Umbrella cells.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Uroplakin III antibody [SFI-1] (ab78196)

This image is courtesy of Carl Hobbs (Kings College London, United Kingdom)

IHC-P image of Uroplakin-III staining on Marmoset bladder sections using ab78196 (1:400). The sections were deparaffinized and subjected to heat mediated antigen retrieval using citric acid. The sections were blocked using 1% BSA for 10 mins at 21°C. ab78196 was diluted 1:400 and incubated with the sections for 2 hours at 21°C. The secondary antibody used was Goat polyclonal to anti mouse IgG conjugated to biotin (1:200)



IHC-P image of Uroplakin-III staining on Rat bladder sections using ab78196 (1:400). The sections were deparaffinized and subjected to heat mediated antigen retrieval using citric acid. The sections were blocked using 1% BSA for 10 mins at 21°C. ab78196 was diluted 1:1000 and incubated with the sections for 2 hours at 21°C. The secondary antibody used was Goat polyclonal to anti mouse IgG conjugated to biotin (1:250)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Uroplakin III antibody [SFI-1] (ab78196)

This image is courtesy of Carl Hobbs (Kings College London, United Kingdom)



ab78196 at 1/20 dilution staining Uroplakin III in human bladder by Immunohistochemistry using formalin-fixed, paraffin-embedded tissue.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Uroplakin III antibody [SFI-1] (ab78196)

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