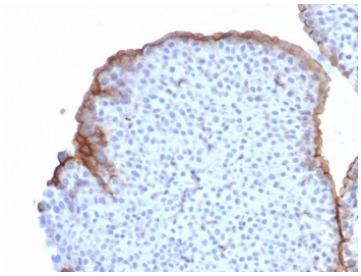
Uroplakin 3B Antibody / UPK3B [clone UPK3B/8550R] (V4629)

Catalog No.	Formulation	Size
V4629-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4629-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4629SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

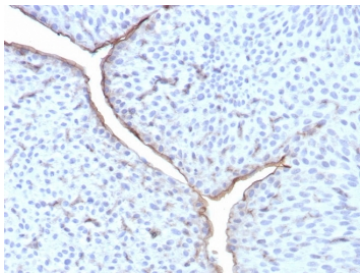
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	UPK3B/8550R
Purity	Protein A/G affinity
UniProt	Q9BT76
Localization	Cell surface
Applications	ELISA (Order BSA-free format for coating) Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This Uroplakin 3B antibody is available for research use only.



Immunohistochemistry of Uroplakin 3B antibody in human bladder tissue. Clone UPK3B/8550R demonstrates crisp membranous HRP-DAB brown staining along the apical surface of urothelial umbrella cells lining the bladder lumen. Staining highlights the specialized luminal membrane of differentiated superficial urothelial cells, with strong signal concentrated at the cell borders facing the bladder cavity. Underlying intermediate and basal urothelial layers show minimal to absent staining, and adjacent stromal components remain largely negative, providing clear contrast with the positive epithelial surface. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 minutes followed by cooling prior to antibody incubation.



IHC staining of FFPE human bladder tissue with Uroplakin 3B antibody (clone UPK3B/8550R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

Uroplakin 3B antibody recognizes Uroplakin 3B, a membrane-associated differentiation marker encoded by the UPK3B gene. Uroplakin 3B Antibody is developed for research applications focused on detecting this epithelial surface protein in normal and neoplastic tissues. Uroplakin 3B localizes predominantly to the plasma membrane, where it contributes to specialized apical membrane structures and epithelial barrier function.

UPK3B antibody, also referred to as Uroplakin 3B antibody and UPIII beta antibody in the literature, targets a member of the uroplakin family that participates in formation of asymmetric unit membrane plaques. While Uroplakin 3A is classically associated with terminally differentiated urothelial cells, Uroplakin 3B demonstrates a distinct expression profile, particularly in mesothelial cells lining the pleura, peritoneum, and pericardium. In these tissues, Uroplakin 3B typically exhibits a membranous staining pattern consistent with its role as a surface glycoprotein.

Structurally, Uroplakin 3B is a single-pass transmembrane protein containing an extracellular domain, a transmembrane region, and a short cytoplasmic tail. It forms heterodimeric complexes with other uroplakin family members and contributes to membrane stabilization and epithelial surface specialization. Its localization to the apical cell membrane supports maintenance of barrier integrity and structural organization in differentiated epithelial linings.

UPK3B expression has been reported in normal mesothelium and in mesothelioma, as well as in certain ovarian and Mullerian-derived tumors. Because of this distribution, UPK3B antibody is widely used in research examining mesothelial differentiation and epithelial lineage identity. Membranous expression patterns are particularly useful when evaluating tissue architecture and tumor origin in histologic specimens.

The recombinant rabbit monoclonal clone UPK3B/8550R targets Uroplakin 3B for research use. Detection of distinct membranous staining patterns supports studies of mesothelial biology, epithelial differentiation, and tumor classification in tissue-based research applications at NSJ Bioreagents.

Application Notes

Optimal dilution of the Uroplakin 3B antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 100-300) from the human protein was used as the immunogen for the Uroplakin 3B antibody.

Storage

Aliquot the Uroplakin 3B antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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