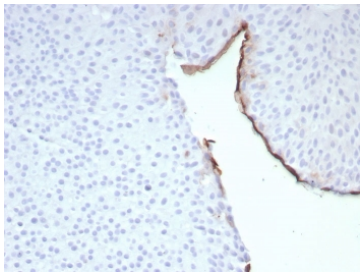
Uroplakin 3B Antibody Recombinant Rabbit MAb / UPK3B [clone UPK3B/8768R] (V4628)

Catalog No.	Formulation	Size
V4628-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4628-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4628SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

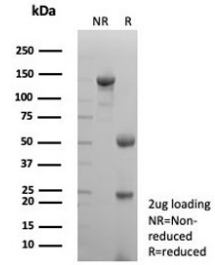
Recombinant RABBIT MONOCLONAL

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/8768R
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. The recombinant rabbit mAb clone UPK3B/8768R demonstrates distinct membranous HRP-DAB brown staining along the apical surface of urothelial umbrella cells lining the bladder lumen. The staining pattern highlights the specialized luminal membrane of differentiated superficial urothelial cells, while underlying intermediate and basal cell layers show minimal to absent signal. Stromal cells and surrounding connective tissue remain largely negative, providing clear contrast with the positively labeled 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.



SDS-PAGE analysis of purified, BSA-free Uroplakin 3B antibody (clone UPK3B/8768R) as confirmation of integrity and purity.

Description

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

UPK3B antibody, also referred to as Uroplakin 3B antibody and UPIII beta antibody in the literature, targets a single-pass transmembrane protein that forms heterodimeric complexes with other uroplakin family members. While Uroplakin 3A is a well-established structural component of urothelial plaques, Uroplakin 3B demonstrates broader expression, particularly in mesothelial cells lining the pleura, peritoneum, and pericardium. In these tissues, Uroplakin 3B shows a characteristic membranous staining pattern reflecting its localization to the cell surface.

Uroplakin 3B has gained importance as a marker of mesothelial differentiation. UPK3B expression has been documented in normal mesothelium and in mesothelioma, as well as in certain MÃƒÂ¼llerian-derived and other epithelial tumors. Because of this distribution, UPK3B antibody is frequently used in research settings examining lineage differentiation and tumor classification, particularly when distinguishing mesothelial from non-mesothelial neoplasms.

Structurally, Uroplakin 3B contains an extracellular domain, a transmembrane region, and a short cytoplasmic tail. It participates in formation and stabilization of specialized membrane domains in differentiated epithelial cells. Altered expression or distribution of UPK3B may reflect changes in epithelial differentiation status or malignant transformation.

The recombinant rabbit monoclonal clone UPK3B/8768R targets Uroplakin 3B for research use. Detection of distinct membranous staining patterns supports investigation of mesothelial biology, epithelial differentiation, and tumor origin in tissue-based studies at NSJ Bioreagents.

Application Notes

Optimal dilution of the Uroplakin 3B antibody recombinant rabbit mAb 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 recombinant rabbit mAb.

Storage

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

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