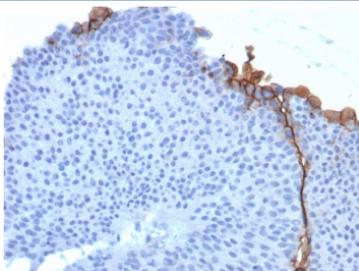


UPK3B Antibody / Uroplakin 3B [clone UPK3B/3270] (V4622)

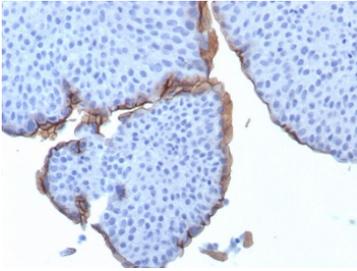
Catalog No.	Formulation	Size
V4622-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4622-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4622SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

[Bulk quote request](#)

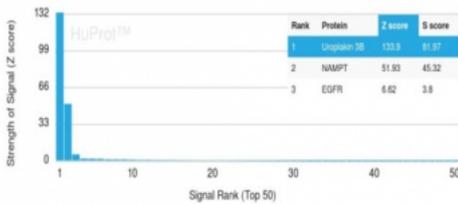
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	UPK3B/3270
Purity	Protein A/G affinity
UniProt	Q9BT76
Localization	Cell Surface
Applications	ELISA (Order BSA-free Format For Coating) : Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This UPK3B antibody is available for research use only.



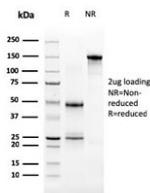
Immunohistochemistry of UPK3B antibody in human bladder tissue. The mouse monoclonal clone UPK3B/3270 demonstrates distinct membranous HRP-DAB brown staining along the apical surface of urothelial umbrella cells, consistent with localization of Uroplakin 3B to differentiated epithelial cell membranes. Staining is concentrated at the luminal interface, highlighting the specialized surface layer of the urothelium, while underlying basal and intermediate cell layers show minimal to absent signal. Surrounding stromal cells remain largely negative, providing clear contrast with positive urothelial elements. 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.



Immunohistochemistry of UPK3B antibody in human bladder tissue. The mouse monoclonal clone UPK3B/3270 shows crisp membranous HRP-DAB brown staining along the apical surface of urothelial umbrella cells lining the bladder lumen. The staining pattern highlights the luminal cell borders and specialized apical membranes, consistent with localization of Uroplakin 3B in differentiated superficial urothelial cells. Basal and intermediate cell layers display little to no specific staining, and adjacent stromal components are largely negative, providing clear contrast with the positively labeled surface epithelium. 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.



Analysis of a HuProt(TM) microarray containing more than 19,000 full-length human proteins using UPK3B antibody (clone UPK3B/3270) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a mAb to its intended target. A mAb is considered to specific to its intended target, if the mAb has an S-score of at least 2.5. For example, if a mAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that mAb to protein X is equal to 29.



SDS-PAGE analysis of purified, BSA-free UPK3B antibody (clone UPK3B/3270) as confirmation of integrity and purity.

Description

UPK3B antibody recognizes Uroplakin 3B, a transmembrane protein encoded by the UPK3B gene and a member of the uroplakin family. UPK3B Antibody is developed for research applications focused on detection of this differentiation-associated membrane protein in epithelial tissues. Uroplakin 3B localizes to the plasma membrane and is primarily expressed in mesothelial cells and selected epithelial linings, where it contributes to specialized membrane structure and barrier function.

Uroplakin 3B antibody, also referred to as UPK3B antibody in the literature, targets a tetraspanin-associated membrane protein that forms heterodimeric complexes with other uroplakin family members. While Uroplakin 3A is a well-characterized component of urothelial plaques, Uroplakin 3B shows a broader expression profile and is strongly associated with mesothelial differentiation. It is frequently detected in normal mesothelium lining the pleura, peritoneum, and pericardium, and in mesothelioma and other tumors of mesothelial origin.

UPK3B expression has been reported in mesothelioma, certain ovarian and Müllerian-derived tumors, and selected epithelial neoplasms. As a membrane-associated protein, Uroplakin 3B typically demonstrates membranous staining in positive cells. Because of its mesothelial lineage association, UPK3B antibody is widely used in studies examining mesothelial differentiation and in research settings investigating tumor origin and classification.

Structurally, Uroplakin 3B contains a luminal domain, a single-pass transmembrane region, and a cytoplasmic tail. It participates in formation of specialized apical membrane plaques in differentiated epithelial cells and contributes to

surface stability and barrier properties. Dysregulation or altered expression of UPK3B may reflect changes in epithelial differentiation status or malignant transformation.

The mouse monoclonal clone UPK3B/3270 targets Uroplakin 3B for research use. Visualization of membranous staining patterns supports investigation of mesothelial and epithelial differentiation in tissue-based studies at NSJ Bioreagents.

Application Notes

Optimal dilution of the UPK3B 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 UPK3B antibody.

Storage

Aliquot the UPK3B antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.