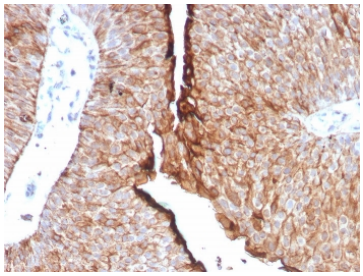
UPK1B Antibody / Urothelial Differentiation Marker Antibody [clone UPK1B/8976R] (V4983)

Catalog No.	Formulation	Size
V4983-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4983-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4983SAF-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	UPK1B/8976R
Purity	Protein A/G affinity
UniProt	O75841
Localization	Membrane
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This UPK1B antibody is available for research use only.



UPK1B Antibody for IHC. Immunohistochemistry analysis of Uroplakin 1B / UPK1B antibody in human urothelial carcinoma tissue using clone UPK1B/8976R. FFPE sections show strong HRP-DAB brown membranous staining in tumor epithelial cells, consistent with the known expression of this urothelial differentiation marker. This Urothelial Differentiation Marker Antibody highlights differentiated tumor epithelial cells within urothelial carcinoma. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 minutes followed by cooling prior to staining.

Description

Uroplakin 1B (UPK1B) is a urothelial-specific transmembrane protein encoded by the UPK1B gene and is most widely

recognized as a definitive marker of terminal urothelial differentiation. UPK1B Antibody / Urothelial Differentiation Marker Antibody (clone UPK1B/8976R) targets this protein in the context of epithelial maturation, where it is frequently referred to as Uroplakin 1B antibody or UP1B antibody in the literature. This Urothelial Differentiation Marker Antibody highlights UPK1B expression in fully differentiated umbrella cells of the bladder and urinary tract, making it a highly specific indicator of urothelial lineage identity. As a Urothelial Differentiation Marker Antibody, it distinguishes mature transitional epithelium from less differentiated epithelial cell populations.

UPK1B antibody is widely used as a urothelial differentiation marker to distinguish fully differentiated urothelial cells from basal, progenitor, or non-urothelial epithelial populations. Its expression increases during the transition from proliferative basal cells to terminally differentiated umbrella cells, directly reflecting epithelial maturation status. In bladder cancer and urothelial carcinoma research, UPK1B serves as a differentiation-associated biomarker, where preserved expression is often associated with more differentiated tumor phenotypes, while reduced or absent expression may correlate with dedifferentiation and aggressive disease. This Urothelial Differentiation Marker Antibody is therefore particularly valuable for studies focused on tumor classification, epithelial lineage tracing, and differentiation state assessment.

Although UPK1B participates in uroplakin complex formation with proteins such as UPK1A, UPK2, and UPK3A, its primary relevance in this context is as a marker of differentiated urothelial phenotype rather than as a structural component alone. The presence of UPK1B reflects the establishment of specialized apical membrane features characteristic of mature urothelial cells, but for this page the emphasis remains on its role in epithelial differentiation and lineage specificity. This functional positioning clearly separates UPK1B antibody from applications centered on membrane structure, protein complexes, or barrier mechanics.

UPK1B expression is largely confined to urothelial tissues including bladder, ureter, and renal pelvis, with minimal expression in unrelated epithelial types, reinforcing its specificity as a differentiation marker. At the cellular level, staining is typically observed along the apical surface of superficial umbrella cells, consistent with its association with terminal differentiation. Clone UPK1B/8976R antibody provides consistent recognition of UPK1B, and the UPK1B/8976R monoclonal antibody format supports reproducible detection of this urothelial differentiation marker in studies focused on epithelial identity and maturation.

Application Notes

Optimal dilution of the UPK1B Antibody / Urothelial Differentiation Marker Antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 109-229) from the human protein was used as the immunogen for the UPK1B Antibody / Urothelial Differentiation Marker Antibody.

Storage

Aliquot the UPK1B antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

Uroplakin 1B antibody, UP1B antibody, Tspan20 antibody, Urothelial plaque protein antibody