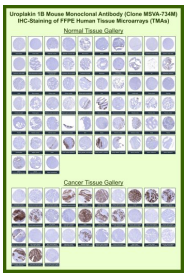
Uroplakin 1B Antibody for IHC / UPK1B Immunohistochemistry Antibody [clone MSVA-734M] (V6127)

Catalog No.	Formulation	Size
V6127-100UG	Antibody in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V6127-20UG	Antibody in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	MSVA-734M
Purity	Protein A/G affinity
UniProt	O75841
Localization	Membrane
Applications	Immunohistochemistry (FFPE) : 1:100-1:200
Limitations	This UPK1B/Uroplakin 1B antibody is available for research use only.



Uroplakin 1B Antibody for IHC Tissue Microarray (TMA). Immunohistochemistry analysis of Uroplakin 1B UPK1B in formalin-fixed paraffin-embedded human normal and cancer tissue microarrays using recombinant mouse monoclonal Uroplakin 1B antibody clone MSVA-734M. Tissue microarray (TMA) staining with HRP-DAB brown chromogen demonstrates membranous localization in urothelial cell populations, with strong signal observed in urothelial tissues and urothelial carcinoma samples, while most non-urothelial tissues show minimal staining. This selective staining pattern supports the role of UPK1B as a urothelial differentiation marker and enables clear identification of urothelial-derived cells in tissue sections. Evaluation across large TMA panels allows direct comparison of UPK1B expression across diverse tissue types under standardized conditions. The observed staining patterns align with reported UPK1B expression profiles in the Human Protein Atlas.

Description

Uroplakin 1B (UPK1B) is a urothelial transmembrane protein encoded by the UPK1B gene and is widely used in immunohistochemistry to identify urothelial epithelial cells in both normal tissue and carcinoma. Uroplakin 1B Antibody for IHC / UPK1B Immunohistochemistry Antibody (clone MSVA-734M) is specifically developed for FFPE tissue staining, where it is commonly referred to as Uroplakin 1B antibody or UPK1B antibody in the literature. This Uroplakin 1B Antibody for IHC highlights distinct membranous staining in urothelial cells, enabling clear visualization of epithelial architecture in bladder, ureter, and renal pelvis tissues. As a UPK1B Immunohistochemistry Antibody, it is optimized for tissue-based detection and histopathological interpretation rather than broader molecular or structural analysis.

In IHC applications, UPK1B demonstrates characteristic membranous staining in urothelial umbrella cells, often outlining cell borders and highlighting epithelial organization within tissue sections. This Uroplakin 1B Antibody for IHC is particularly valuable for identifying urothelial origin in tumor samples, including bladder carcinoma, where staining patterns support differentiation from non-urothelial malignancies. The antibody enables precise localization of tumor epithelial cells and supports studies focused on tissue classification, tumor identification, and epithelial mapping. As a UPK1B Immunohistochemistry Antibody, it provides consistent staining patterns that align with known urothelial expression profiles.

Tissue microarray (TMA) immunohistochemistry data demonstrate reproducible membranous staining across a wide range of normal and tumor tissues, reinforcing the reliability of this antibody in high-throughput tissue analysis. TMA-based evaluation highlights consistent performance across multiple patient-derived samples, supporting its use in comparative pathology studies and large-scale screening workflows. This Uroplakin 1B Antibody for IHC shows stable staining intensity and localization across TMA panels, making it well suited for studies requiring cross-sample consistency and standardized tissue evaluation.

UPK1B expression is largely restricted to urothelial tissues, with minimal staining in non-urothelial epithelia, enhancing specificity in immunohistochemical workflows. Staining is typically observed as strong membranous labeling in epithelial cells, consistent with its plasma membrane localization. Clone MSVA-734M antibody provides reliable recognition of UPK1B, and the monoclonal antibody format supports reproducible detection of this target in FFPE tissue sections. This Uroplakin 1B Antibody for IHC is therefore well suited for histological analysis, tumor profiling, and tissue-based studies requiring consistent and interpretable staining results.

This antibody is also part of a broader collection of IHC antibodies validated by tissue microarray analysis, supporting consistent staining across normal and cancer tissues.

Application Notes

1. Optimal dilution of the Uroplakin 1B Antibody for IHC / UPK1B Immunohistochemistry Antibody should be determined by the researcher.

2. Manual Protocol: Freshly cut sections should be used (less than 10 days between cutting and staining). Heat-induced antigen retrieval for 5 minutes in an autoclave at 121oC in pH 7.8 Target Retrieval Solution buffer. Apply the antibody at a dilution of 1:150 at 37oC for 60 minutes. Visualization of bound antibody by the EnVision Kit (Dako, Agilent) according to the manufacturer's directions.

Immunogen

A recombinant fragment (around amino acids 109-229) of human Uroplakin 1B (UPK1B) protein (exact sequence is proprietary) was used as the immunogen for the Uroplakin 1B Antibody for IHC / UPK1B Immunohistochemistry Antibody.

Storage

UPK1B/Uroplakin 1B antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.

Alternate Names

Uroplakin 1B antibody, UPK1B antibody, UP1B antibody, Tspan20 antibody, Urothelial carcinoma marker antibody