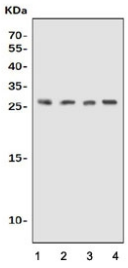
UPK1B Antibody / Epithelial Barrier Protein Antibody (RQ6344)

Catalog No.	Formulation	Size
RQ6344	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	O75841
Applications	Western blot: 0.5-1ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This UPK1B antibody is available for research use only.



UPK1B Antibody for WB. Western blot analysis of Uroplakin 1B / UPK1B antibody in lysates from 1) human K562 cells, 2) human SK-OV-3 cells, 3) rat stomach tissue, and 4) mouse stomach tissue using UPK1B Antibody / Epithelial Barrier Protein Antibody. A band is detected at approximately 25â€“30 kDa, consistent with the predicted molecular weight of Uroplakin 1B / UPK1B. The observed band aligns with expression of this epithelial barrier-associated protein, reflecting its role in maintaining urothelial integrity.

Description

Uroplakin 1B (UPK1B) is a urothelial transmembrane protein encoded by the UPK1B gene and plays a critical role in maintaining epithelial barrier function within the urinary tract. UPK1B Antibody / Epithelial Barrier Protein Antibody recognizes this protein in the context of permeability control, where it is commonly referred to as Uroplakin 1B antibody or UP1B antibody in the literature. This Epithelial Barrier Protein Antibody highlights UPK1B as a key contributor to the impermeable surface of the bladder epithelium, supporting the separation of urine from underlying tissues. As an Epithelial Barrier Protein Antibody, it emphasizes the functional role of UPK1B in regulating permeability and maintaining

epithelial integrity rather than focusing on differentiation status or membrane structure.

UPK1B contributes to the formation of a highly resistant apical surface in urothelial umbrella cells, limiting the passage of ions, solutes, and toxic urinary components. Its expression is tightly associated with barrier competency, where disruption of UPK1B-containing complexes can compromise epithelial integrity and increase permeability. This Epithelial Barrier Protein Antibody is therefore particularly suited for studies examining epithelial barrier function, tissue protection mechanisms, and urothelial permeability regulation. By centering on barrier physiology, this page is clearly differentiated from UPK1B antibody formats that emphasize urothelial differentiation markers or plaque structural assembly.

The barrier properties associated with UPK1B arise from its ability to support tightly organized membrane domains that reduce paracellular and transcellular permeability. While UPK1B participates in uroplakin complexes, its relevance in this context is its contribution to functional barrier integrity rather than structural plaque formation alone. This Epithelial Barrier Protein Antibody reinforces the concept of UPK1B as a regulator of epithelial impermeability, clearly separating it from pages focused on membrane organization or ultrastructural plaque architecture.

UPK1B expression is largely restricted to urothelial tissues including bladder, ureter, and renal pelvis, with localization concentrated at the apical membrane of superficial umbrella cells where barrier function is most critical. Staining is typically membranous, reflecting its role in forming a protective epithelial interface that limits permeability. This Epithelial Barrier Protein Antibody supports reproducible detection of UPK1B in studies focused on epithelial integrity, urothelial barrier maintenance, and physiological protection against urinary stress.

Learn more about the biological functions, urothelial plaque structure, and additional validation data by visiting our UPK1B Antibody / Urothelial Plaque Structural Protein Antibody page.

Application Notes

Optimal dilution of the UPK1B Antibody / Epithelial Barrier Protein Antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids I107-Q216) was used as the immunogen for the UPK1B Antibody / Epithelial Barrier Protein Antibody.

Storage

After reconstitution, the UPK1B antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

Uroplakin 1B antibody, UP1B antibody, Tspan20 antibody, Epithelial barrier protein antibody

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