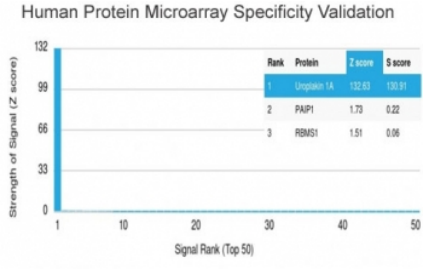
# UPK1A Antibody Microarray Specificity Validated / Uroplakin 1A [clone UPK1A/2923] (V9130)

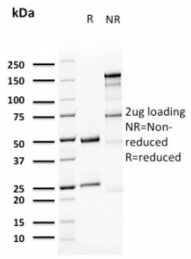
| Catalog No. | Formulation | Size |
|---|---|---|
| V9130-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V9130-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug |
| V9130SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium 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 IgG2b, kappa |
| **Clone Name** | UPK1A/2923 |
| **Purity** | Protein A/G affinity |
| **UniProt** | O00322 |
| **Localization** | Cell Surface |
| **Applications** | ELISA (order BSA-free Format For Coating) : |
| **Limitations** | This UPK1A antibody is available for research use only. |




HuProt microarray specificity analysis of UPK1A antibody (clone UPK1A/2923). The antibody was screened against a HuProt microarray containing more than 19,000 full-length human proteins. Signal intensity is reported as a Z-score, representing the number of standard deviations above the mean signal generated across the array when the antibody, together with a fluorescently labeled anti-IgG secondary antibody, binds to a given protein. Proteins are ranked in descending order by Z-score, and the S-score reflects the difference in Z-scores between the top-ranked protein and the next highest signal, providing a measure of relative target specificity. Clone UPK1A/2923 demonstrates a markedly elevated Z-score for Uroplakin 1A with a strong S-score separation from other proteins, supporting highly specific recognition of UPK1A on the array.




SDS-PAGE analysis of purified, BSA-free UPK1A antibody (clone UPK1A/2923) as confirmation of integrity and purity.

## Description

UPK1A antibody recognizes Uroplakin 1A, a urothelial differentiation-associated membrane protein encoded by the UPK1A gene. UPK1A Antibody Microarray Specificity Validated (clone UPK1A/2923) is a mouse monoclonal antibody developed for research applications requiring specific detection of this apical membrane component in urothelial tissues. Uroplakin 1A localizes predominantly to the apical plasma membrane of umbrella cells lining the bladder, ureter, and renal pelvis, where it contributes to formation of specialized urothelial plaques that maintain barrier integrity.

UPK1A antibody, also referred to as Uroplakin 1A antibody and UPIa antibody, targets a member of the uroplakin family of integral membrane proteins. Uroplakin 1A contains multiple transmembrane domains and extracellular loops that participate in heterodimer formation with other uroplakins, including Uroplakin 2. These complexes assemble into asymmetric unit membrane plaques that provide mechanical stability and reduce permeability of the urothelial surface to urine and solutes.

UPK1A expression is highly restricted to differentiated urothelial umbrella cells and is closely associated with terminal epithelial differentiation and maintenance of apical polarity. Because of this tissue-restricted expression, Uroplakin 1A is widely studied as a marker of urothelial lineage in both normal tissue biology and tumor classification research. Membranous staining patterns are particularly informative when assessing epithelial origin in tissue sections.

In oncology research, UPK1A expression is frequently evaluated in urothelial carcinoma and in the differential diagnosis of metastatic carcinomas of unknown primary origin. Detection of Uroplakin 1A supports urothelial differentiation, while most non-urothelial epithelial tumors lack expression. This selective profile makes UPK1A antibody valuable for studies of bladder cancer biology and epithelial lineage determination.

Microarray specificity validation of clone UPK1A/2923 supports its use in large-scale protein profiling platforms and tissue-based analyses, providing confidence in target recognition for research applications at NSJ Bioreagents.

## Application Notes

Optimal dilution of the UPK1A antibody should be determined by the researcher.

## Immunogen

A portion of amino acids 114-173 was used as the immunogen for the UPK1A antibody.

## Storage

Aliquot the UPK1A antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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