

## 36-2065: Anti-Uroplakin 1A (Urothelial Differentiation Marker) Monoclonal Antibody (Clone: UPK1A/2922)

|                                |  |
|--------------------------------|--|
| <b>Clonality :</b>             | Monoclonal   |
| <b>Clone Name :</b>            | UPK1A/2922   |
| <b>Application :</b>           | ELISA,IHC  |
| <b>Reactivity :</b>            | Human  |
| <b>Gene :</b>                  | UPK1A  |
| <b>Gene ID :</b>               | 11045  |
| <b>Uniprot ID :</b>            | O00322   |
| <b>Alternative Name :</b>      | UP1A; UPIA; UPKA; TSPAN21  |
| <b>Isotype :</b>               | Mouse IgG2b, kappa   |
| <b>Immunogen Information :</b> | Recombinant fragment (around aa 114-173) of human Uroplakin 1A (UPK1A) protein (exact sequence is proprietary) |

### Description

The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is found in the asymmetrical unit membrane (AUM) where it can complex with other transmembrane 4 superfamily proteins. It may play a role in normal bladder epithelial physiology, possibly in regulating membrane permeability of superficial umbrella cells or in stabilizing the apical membrane through AUM/cytoskeletal interactions. The protein may also play a role in tumor suppression.

### Product Info

|                            |  |
|----------------------------|--|
| <b>Amount :</b>            | 20 µg / 100 µg   |
| <b>Content :</b>           | 200µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| <b>Storage condition :</b> | Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months.   |

### Application Note

ELISA (For coating, order Ab without BSA); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

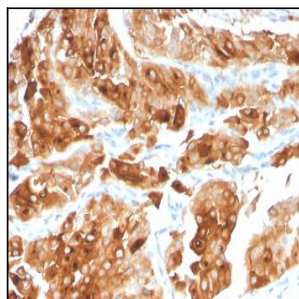


Fig.1: Formalin-fixed, paraffin-embedded human Urothelial Carcinoma stained with Uroplakin 1A Mouse Monoclonal Antibody (UPK1A/2922).

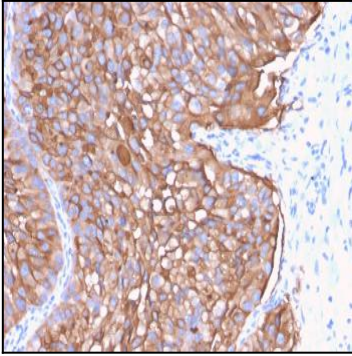


Fig. 2: Formalin-fixed, paraffin-embedded human Bladder stained with Uroplakin 1A Mouse Monoclonal Antibody (UPK1A/2922).

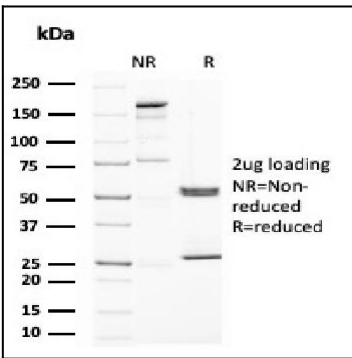


Fig. 3: SDS-PAGE Analysis Purified Uroplakin 1A Mouse Monoclonal Antibody (UPK1A/2922). Confirmation of Purity and Integrity of Antibody.

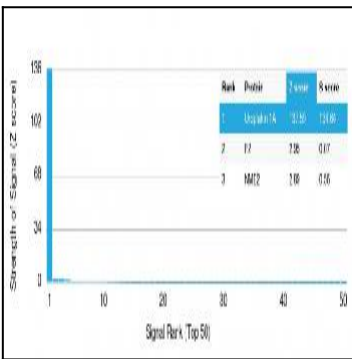


Fig. 4: Analysis of Protein Array containing more than 19,000 full-length human proteins using Uroplakin 1A Mouse Monoclonal Antibody (UPK1A/2922) Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ 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™ 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 be 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.