

36-3347: Anti-Uroplakin 1B (Urothelial Differentiation Marker) Monoclonal Antibody(Clone: UPK1B/3102)

Clonality :	Monoclonal
Clone Name :	UPK1B/3102
Application :	ELISA,IHC
Reactivity :	Human
Gene :	UPK1B
Gene ID :	7348
Uniprot ID :	O75841
Alternative Name :	Tetraspanin-20; Tspan-20; TSPAN20; UP1b; UPIb; UPK1B; Uroplakin-1b
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Recombinant fragment (around aa 109-229) of human Uroplakin 1B (UPK1B) 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 form a 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. UPK1B is expressed by terminally differentiated urothelial cells.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/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.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

ELISA (For coating, order Ab without BSA); Immunohistochemistry (Formalin-fixed) (1-2µg/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°C followed by cooling at RT for 20 minutes);

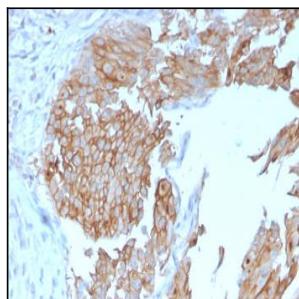


Fig. 1: Formalin-fixed, paraffin-embedded human Urothelial Carcinoma stained with Uroplakin 1B Mouse Monoclonal Antibody (UPK1B/3102).

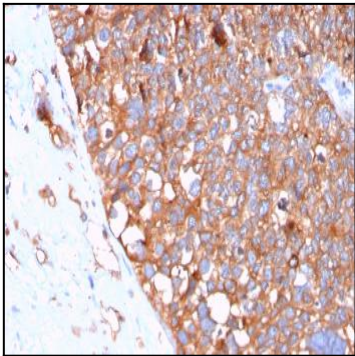


Fig. 2: Formalin-fixed, paraffin-embedded human Urothelial Carcinoma stained with Uroplakin 1B Mouse Monoclonal Antibody (UPK1B/3102).

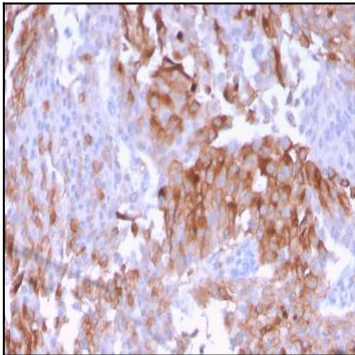


Fig. 3: Formalin-fixed, paraffin-embedded human Urothelial Carcinoma stained with Uroplakin 1B Mouse Monoclonal Antibody (UPK1B/3102).

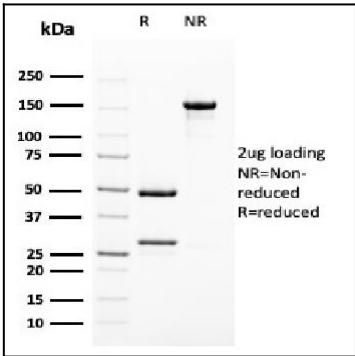


Fig. 4: SDS-PAGE Analysis Purified Uroplakin 1B Mouse Monoclonal Antibody (UPK1B/3102). Confirmation of Purity and Integrity of Antibody.

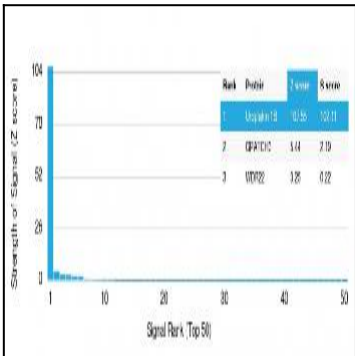


Fig. 5: Analysis of Protein Array containing more than 19,000 full-length human proteins using Uroplakin 1B Mouse Monoclonal Antibody (UPK1B/3102) Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary 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.