



Mouse anti Uroplakin-2 Monoclonal Antibody

Alternative Name(s): nan

Order Information

- **Description:** Uroplakin-2
- **Catalogue:** 603-940
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** ABM146
- **Application:** IHC(P), WB
- **Reactivity:** Hu

ANTIGEN PREPARATION

A synthetic peptide from C-term of human uroplakin-2 protein

BACKGROUND

Uroplakin-2 is one of the proteins of the highly conserved urothelium-specific integral membrane proteins of the asymmetric unit membrane which forms urothelium apical plaques in mammals. Urothelium is built with dimensional, asymmetric plaques, whose specific structure is crucial for tightness and elasticity of urothelium. Integral components of these plaques are uroplakins (UP).. Several isoforms of UP are known in humans: UP1a, UP1b, UP2, UP3a, UP3b, and UP3c. UP2 with a mass of 15kDa is the smallest UP. In contrast to other UPs, a mature form of UP2 does not consist of any sugar moiety; however its precursor undergoes glycosylation in endoplasmic reticulum. Glycosylation of immature UP2 seems to be crucial in building the dimer with UP1a. UP2 is essential in forming of uroplakins crystals, out of which plaques are built. Studies have shown uroplakin 2 messenger RNA to be expressed in bladder cancer tissues and peripheral blood of patients with urothelial carcinoma.

PURIFICATION

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes human Uroplakin-2 protein. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

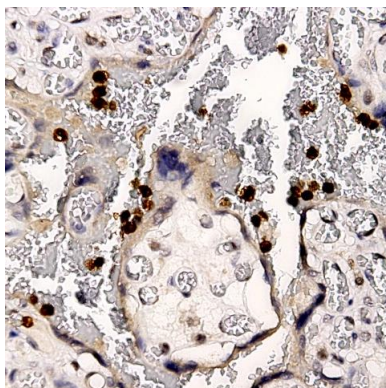
- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 15.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

*Optimal dilutions should be determined by researchers for the specific applications.

FOR RESEARCH USE ONLY.

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DATA ATTACHMENTS



Immunohistochemistry: Human placenta (FFPE) stained with Mouse anti- Uroplakin-2 (Cat# 603-940) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES

Matuszewski M, et al. Biomed Res Int. 2018 29;2018:8693297.

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