Ksp-Cadherin Monoclonal Antibody

Catalog No. E-PA-3613  
Reactivity Human  
Applications IHC-p  
Storage Store at -20°C. Avoid freeze / thaw cycles.  
Host Mouse  
Isotype IgG  

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Immunogen Full length protein from eukaryotic expression system.  
Swissprot O75309  
Synonyms Cadherin-16 (Kidney-specific cadherin) (Ksp-cadherin)  
Positive Control Suprarenal epithelioma  
Cellular Localization Cytoplasm and Membrane  
Specificity This antibody detects endogenous levels of Ksp-Cadherin  
Clone No. Clone:AS1A27  
Purify Affinity purification  
Concentration 1mg/mL  
Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  
Dilution IHC 1:500  
Function Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types.

Background

Kidney specific calcium binding protein (Ksp-Cadherin) is a new member of cadherin family. This protein has a kidney specificity. In kidney tissue, Ksp-Cadherin is only expressed in renal tubular epithelial basement membrane and collecting duct epithelium, and not expressed in glomerular, renal interstitial cells and vessels. Many different calcium (the E-cadherin N-cadherin, Cadherin Delta etc.) in renal cell tumors have confirmed that the loss of these adhesion molecules may be related with tumor dedifferentiation and lymph node metastasis. Research of Shen et al. have showed that Ksp-Cadherin has a high sensitivity up to 100% (13/13) in chromophobe renal cell carcinoma, and 95% (19/20) in renal oncocytoma.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human Renal cell carcinoma tissue labeling Ksp-Cadherin Monoclonal Antibody with E-PA-3222 at dilution of 1:500. Heat induced epitope retrieval was performed by boiling the tissue sections in citrate buffer (pH 6.0) for 20 minutes. Incubation with the primary antibody was performed for overnight at 4°C followed by keeping at room temperature for 15 minutes. HRP conjugated Anti-Mouse secondary antibody was applied for 30 minutes at room temperature followed by DAB as chromogen, then counterstain with haematoxylin.