

**Rabbit Anti-KIM-1 (HAVcr-1) [EP309]: RM0379**

**Intended Use:** For Research Use Only

**Description:** KIM-1 (kidney injury molecule 1), also known as HAVcr-1 (Hepatitis A virus cellular receptor 1), is a transmembrane glycoprotein that contributes to immune modulation, allergic response and viral disease susceptibility. KIM-1 has wide tissue distribution, and is localized on the apical membrane. While KIM-1 protein expression is generally undetectable in the normal kidney, high levels were observed in the proximal tubules in the post-ischaemic kidney, suggesting its utility as a dedifferentiation marker for early indication of epithelial response to injury. A considerable number of studies demonstrated KIM-1 mRNA and protein regulation following acute nephrotoxicity. Consequently, this biomarker was qualified by the FDA as an acceptable biomarker in detecting acute drug-induced nephrotoxicity in rats during preclinical drug development. KIM-1 has also been extensively evaluated in renal cell carcinoma (RCC) tissues. Overexpression of KIM-1 was observed in over 90% of clear cell RCC and 82% of primary RCC. Compared to normal kidney, expression is reduced in benign oncocytomas. Additionally, KIM-1 was also detected in lymph nodes to which tumors have metastasized. These observations are consistent with the interpretation that clear cell and papillary RCC are derived from proximal tubular cells while oncocytomas are of the distal nephron. Recently, KIM-1 was also found overexpressed in ovarian clear cell carcinoma and colorectal cancer.

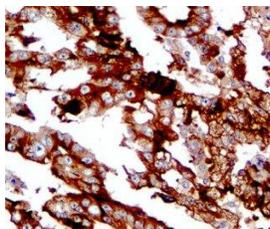
**Specifications**

Clone: EP309  
Source: Rabbit  
Isotype: IgG  
Reactivity: Human  
Localization: Cytoplasm  
Formulation: Antibody in PBS pH7.5, containing 0.2% BSA and <0.1% sodium azide (NaN<sub>3</sub>)  
Storage: Store at 2°- 8°C  
Applications: IHC  
Package:

Description	Catalog No.	Size
KIM-1 (HAVcr-1) Concentrated	RM0379	1 ml

**IHC Procedure**

Positive Control: Kidney, renal clear cell carcinoma  
Concentrated Dilution: 50-200  
Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
Incubation Time and Temp: 30-60 minutes @ RT  
Detection: Refer to the detection system manual  
\* Result should be confirmed by an established diagnostic procedure.



FFPE human RCC tissue stained with anti-KIM-1 using DAB

**References:**

1. Kidney injury molecule-1 expression in human kidney transplants with interstitial fibrosis and tubular atrophy. Nogare AL, et al. BMC Nephrol. Feb 13;16:19, 2015.
2. Estimation of kidney injury molecule-1 (Kim-1) in patients with lupus nephritis. Nozaki Y, et al. Lupus. Jul;23(8):769-77, 2014.

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