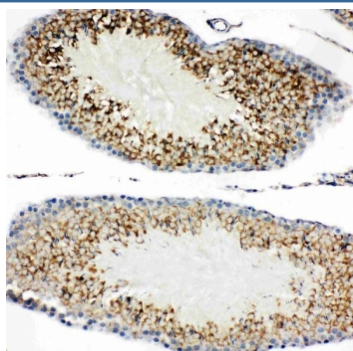


TIM-1 Antibody (KIM-1) (R30715)

Catalog No.	Formulation	Size
R30715	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	O54947
Applications	Western blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This TIM-1 antibody is available for research use only.



IHC staining of FFPE rat testis tissue with TIM-1 antibody. HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of rat 1) kidney, 2) testis and 3) heart tissue lysate with TIM-1 antibody. Predicted molecular weight~39 kDa, routinely observed at ~55 kDa (Ref 1), and a heavily glycosylated mature form at ~100 kDa (Ref 2).

Description

T-cell immunoglobulin and mucin domain-containing protein 1 (TIM-1) or Kidney injury molecule 1 (KIM-1), also known as HAVCR1 and HAVCR, is a protein that in humans is encoded by the KIM1 gene. Biochemical, mutational, and cell adhesion analyses confirm that TIM-1 is capable of homophilic interactions. The features identified in murine TIM1 is conserved in human protein. The protein is a receptor for virus through the infection of canine osteogenic sarcoma cells expressing HAVCR1 with HAV. Using a monoclonal antibody to mouse TIM-1, expression was seen after activation of naive T cells and on T cells differentiated in Th2-polarizing conditions. Ectopic expression during mouse T-cell differentiation leads to production of the Th2-type cytokine IL4, but not the Th1-type cytokine Ifng.

Application Notes

Titration of the TIM-1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 289-307 (HPRAEDNIYIIEDRSRGAE-rat) were used as the immunogen for this TIM-1 antibody.

Storage

The lyophilized TIM-1 antibody can be stored at 4oC to -20oC. After reconstitution, aliquot and store at -20oC. Avoid repeated freezing and thawing.

References (2)