TIM1 Antibody / KIM-1 / HAVCR1 (RQ4572)

Catalog No.	Formulation	Size
RQ4572	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q96D42
Applications	Western Blot : 0.5-1ug/ml ELISA (Capture) : 1-5ug/ml (human recombinant protein)
Limitations	This TIM1 antibody is available for research use only.

Western blot testing of human recombinant protein with TIM1 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

KIM1 (KIDNEY INJURY MOLECULE 1), also known as HAVCR1, HAVCR or TIM1, is a protein that in humans is encoded by the KIM1 gene. The gene is mapped to 5q33.3. Biochemical, mutational, and cell adhesion analyses confirm that TIM1 is capable of homophilic Tim-Tim interactions. The protein is indeed a receptor for the virus through the infection of canine osteogenic sarcoma cells expressing HAVCR1 with HAV. Using a monoclonal antibody to mouse Tim1, TIM1 is expressed after activation of naive T cells and on T cells differentiated in Th2-polarizing conditions. Ectopic expression of TIM1 during mouse T-cell differentiation leads to production of the Th2-type cytokine Il4, but not the Th1-type cytokine Ifng. TIM1-expressing epithelial cells internalized apoptotic bodies, and the protein is directly

responsible for phagocytosis in cultured primary rat tubule epithelial cells and in porcine and canine epithelial cell lines.

Application Notes

Optimal dilution of the TIM1 antibody should be determined by the researcher.

Immunogen

Amino acids Q58-K289 from the human protein were used as the immunogen for the TIM1 antibody.

Storage

After reconstitution, the TIM1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

References (2)