

## Anti-TIM 1/HAVCR1 Antibody Picoband® PE Conjugated

Catalog Number: A01306-PE

### About HAVCR1

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 KIM1 gene is mapped to 5q33.3. Biochemical, mutational, and cell adhesion analyses confirm that Tim1 is capable of homophilic Tim-Tim interactions. The features identified in murine KIM1 are conserved in human KIM1. The KIM1 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 KIM1 during mouse T-cell differentiation leads to production of the Th2-type cytokine Il4, but not the Th1-type cytokine Ifng. KIM1-expressing epithelial cells internalized apoptotic bodies, and Kim1 is directly responsible for phagocytosis in cultured primary rat tubule epithelial cells and in porcine and canine epithelial cell lines.

### Overview

|                      |   |
|----------------------|---|
| Product Name         | Anti-TIM 1/HAVCR1 Antibody Picoband® PE Conjugated  |
| Reactive Species     | Human, Mouse, Rat   |
| Application          | Recommended applications are based on the parent unconjugated antibody (WB, ELISA (Cap)). Customers may select suitable applications according to their experimental needs. |
| Clonality            | Polyclonal  |
| Formulation          | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na2HPO4, 0.02% NaN3.   |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.  |
| Host                 | Rabbit  |
| Uniprot ID           | Q96D42  |

### Technical Details

|                  |   |
|------------------|---|
| Immunogen        | E. coli-derived human TIM 1 recombinant protein (Position: Q58-K289). |
| Cross Reactivity | No cross-reactivity with other proteins.                              |
| Isotype          | Rabbit IgG  |
| Form             | Liquid  |
| Concentration    | 0.5 mg/mL   |
| Purification     | Immunogen affinity purified.  |
| Conjugate        | PE<br>Excitation Wavelength: 566 nm<br>Emission Wavelength: 574 nm    |

Suggested Dilutions

Optimal dilutions should be determined by end users.

## 2 Publications Citing This Product

1. PubMed ID: 32119183, Liu Y, Feng Q, Miao J, Wu Q, Zhou S, Shen W, Feng Y, Hou FF, Liu Y, Zhou L. C-X-C motif chemokine receptor 4 aggravates renal fibrosis through activating JAK/STAT/GSK3beta/beta-catenin pathway. J Cell Mol Med. 2020 Apr;24(7):3837-3855. doi:10.1111/jcmm.14973. Epub 2020 Mar 2. PMID:32119183; PMCID:PMC7171406.

2. PubMed ID: 31938132, Tryptase and TIM-1 double-positive mast cells in different stages of human chronic periodontitis

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