

Product datasheet for **TA392422**

TIM 1 (HAVCR1) Rabbit Polyclonal Antibody

Product data:

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| Product Type: | Primary Antibodies |
| Applications: | WB |
| Recommended Dilution: | WB: 1:1000~1:2000 |
| Reactivity: | Human, Rat |
| Host: | Rabbit |
| Isotype: | IgG |
| Clonality: | Polyclonal |
| Immunogen: | Recombinant protein of human CD365. |
| Specificity: | CD365 polyclonal antibody detects endogenous levels of CD365 protein. |
| Formulation: | Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2. |
| Concentration: | 1mg/ml |
| Conjugation: | Unconjugated |
| Storage: | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles. |
| Stability: | 1 year |
| Predicted Protein Size: | ~ 44 kDa |
| Gene Name: | hepatitis A virus cellular receptor 1 |
| Database Link: | Entrez Gene 26762 Human Q96D42 |



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| Background: | <p>T cell Ig- and mucin-domain-containing molecules (TIMs) are a family of transmembrane proteins expressed by various immune cells. TIM-1 (HAVCR1 (hepatitis A virus cellular receptor 1), KIM-1 (kidney injury molecule-1) was originally identified as a receptor for hepatitis A virus. TIM-1 also acts as a costimulatory receptor on T cells and following activation, associates with the TCR complex to upregulate signaling and cytokine production. Another TIM family member, TIM-4, is expressed by antigen presenting cells and is a ligand for TIM-1. TIM-1 expressed by Th1 and Th17 cells was also recently shown to interact with P-selectin to mediate T cell trafficking during inflammation and autoimmune disease. NKT cells also express TIM-1, and engagement of TIM-1 on NKT cells leads to increased production of IL-4, but decreased production of IFN-gamma. TIM-1 is also a receptor for phosphatidylserine exposed by cells undergoing apoptosis. Detection of phosphatidylserine by TIM-1 expressed on NKT cells results in activation, proliferation, and cytokine production. Expression of TIM-1 on regulatory B cells is required for optimal production of IL-10. Mice lacking the TIM-1 mucin domain have decreased production of IL-10 by regulatory B cells, hyperactive T cells, increased levels of inflammatory cytokines, and enhanced severity of autoimmune disease. In addition, TIM-1 polymorphisms are associated with susceptibility to atopic diseases including asthma. Finally, expression of TIM-1 is increased in renal tubular epithelial cells following kidney injury.</p> |
| Synonyms: | <p>CD365; HAVcr-1; HAVCR1; Hepatitis A virus cellular receptor 1; Kidney injury molecule 1; KIM-1; KIM1; T-cell immunoglobulin and mucin domain-containing protein 1; T-cell immunoglobulin mucin receptor 1; T-cell membrane protein 1; TIM; TIM-1; TIM1; TIMD-1; TIMD1</p> |
| Note: | <p>For research use only, not for use in diagnostic procedure.</p> |