

# Anti-TIM-1 / HAVCR1 Reference Antibody (CRX-014)

Catalog # APR11164

## Product Information

---

|                   |                                                                |
|-------------------|----------------------------------------------------------------|
| Application       | Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA |
| Primary Accession | <a href="#">Q96D42</a>                                         |
| Reactivity        | Human                                                          |
| Clonality         | Monoclonal                                                     |
| Isotype           | IgG2SA                                                         |
| Calculated MW     | 39250                                                          |

## Additional Information

---

|                    |                |
|--------------------|----------------|
| Target/Specificity | TIM-1 / HAVCR1 |
| Expression system  | CHO            |

## Protein Information

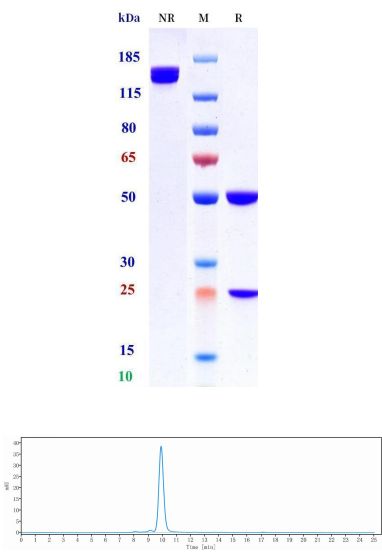
---

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name              | HAVCR1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Synonyms          | KIM1, TIM1, TIMD1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Function          | <p>Phosphatidylserine receptor that plays an important functional role in regulatory B-cell homeostasis including generation, expansion and suppressor functions (PubMed:<a href="#">18082433</a>, PubMed:<a href="#">18414680</a>). Involved in efferocytosis, the process by which apoptotic cells are removed, by binding to phosphatidylserine present on apoptotic cells and promoting their engulfment (PubMed:<a href="#">18082433</a>). Confers phagocytic ability on injured kidney epithelial cells, allowing them to bind to and internalize apoptotic bodies and necrotic debris following kidney injury (PubMed:<a href="#">17471468</a>, PubMed:<a href="#">18414680</a>). The ectodomain binds to the surface of apoptotic kidney epithelial cells via phosphatidylserine and oxidized phospholipids exposed on the cell membrane of the apoptotic cells (PubMed:<a href="#">18414680</a>).</p> <p>HAVCR1-expressing cells are also capable of phagocytosing Gram-negative and Gram-positive bacteria (PubMed:<a href="#">18414680</a>). As P-selectin/SELPLG ligand, plays a specialized role in activated but not naive T-cell trafficking during inflammatory responses (PubMed:<a href="#">24703780</a>). Controls thereby T-cell accumulation in the inflamed central nervous system (CNS) and the induction of autoimmune disease (PubMed:<a href="#">24703780</a>). Acts as a regulator of T-cell proliferation (By similarity). Also regulates expression of various anti-inflammatory cytokines and co-inhibitory ligands including IL10 (By similarity).</p> |
| Cellular Location | Cell membrane; Single-pass type I membrane protein. Cell projection, phagocytic cup. Cytoplasmic vesicle, phagosome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

**Tissue Location**

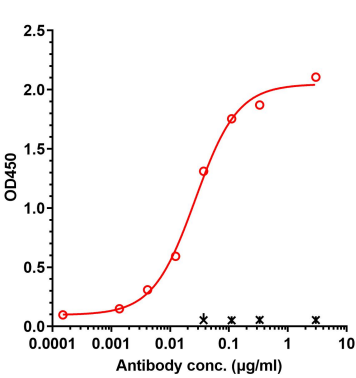
Widely expressed, with highest levels in kidney and testis. Expressed by activated CD4+ T-cells during the development of helper T-cells responses.

**Images**



Anti-TIM-1 / HAVCR1 Reference Antibody (CRX-014) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.

The purity of Anti-TIM-1 / HAVCR1 Reference Antibody (CRX-014) is 95.91%, determined by SEC-HPLC.



Immobilized Human TIM-1 / HAVCR1,His Tag at 2 µg/mL can bind CRX-014, EC50= 0.02674 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.