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# HAVCR1

Purified Mouse Monoclonal Antibody
Catalog # AO2575a

## Product Information

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|---|---|
| **Application** | WB, E |
| **Primary Accession** | Q96D42 |
| **Reactivity** | Human, Mouse |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Clone Names** | 3D9F5 |
| **Isotype** | Mouse IgG1 |
| **Calculated MW** | 39250 |
| **Immunogen** | Purified recombinant fragment of human HAVCR1 (AA: 70-290) expressed in E. Coli. |
| **Formulation** | Purified antibody in PBS with 0.05% sodium azide |

## Additional Information

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| **Gene ID** | 26762 |
| **Other Names** | TIM; KIM1; TIM1; CD365; HAVCR; KIM-1; TIM-1; TIMD1; TIMD-1; HAVCR-1 |
| **Dilution** | WB~~ 1/500 - 1/2000 E~~ 1/10000 |
| **Storage** | Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | HAVCR1 is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | HAVCR1 |
| **Synonyms** | KIM1, TIM1, TIMD1 |
| **Function** | Phosphatidylserine receptor that plays an important functional role in regulatory B-cell homeostasis including generation, expansion and suppressor functions (PubMed:18082433, PubMed:18414680). Involved in efferocytosis, the process by which apoptotic cells are removed, by binding to phosphatidylserine present on apoptotic cells and promoting their engulfment (PubMed:18082433). Confers phagocytic ability on injured kidney epithelial cells, allowing them to bind to and internalize apoptotic bodies and |

necrotic debris following kidney injury (PubMed:17471468, PubMed:18414680). 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:18414680). HAVCR1-expressing cells are also capable of phagocytosing Gram-negative and Gram-positive bacteria (PubMed:18414680). As P-selectin/SELPLG ligand, plays a specialized role in activated but not naive T-cell trafficking during inflammatory responses (PubMed:24703780). Controls thereby T-cell accumulation in the inflamed central nervous system (CNS) and the induction of autoimmune disease (PubMed:24703780). 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).

**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.

## References

1.Biomed Res Int. 2015;2015:854070. 2.Pediatr Res. 2015 Oct;78(4):430-5.

## Images

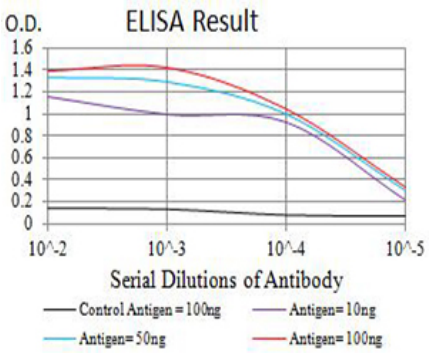



Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

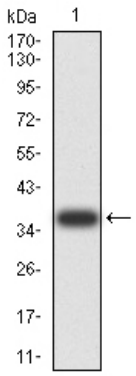
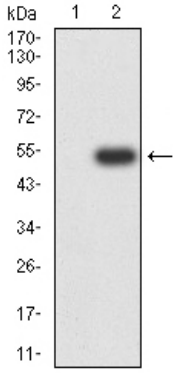



Figure 2:Western blot analysis using HAVCR1 mAb against human HAVCR1 (AA: 70-290) recombinant protein. (Expected MW is 37 kDa)

Figure 3:Western blot analysis using HAVCR1 mAb against HEK293 (1) and HAVCR1 (AA: 70-290)-hIgGFc transfected HEK293 (2) cell lysate.



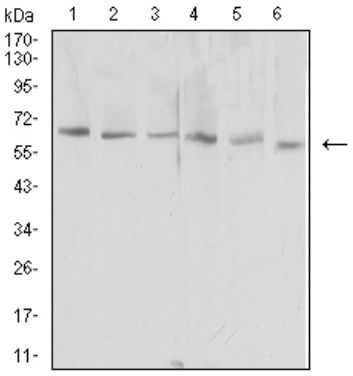




Figure 4:Western blot analysis using HAVCR1 mouse mAb against NIH/3T3 (1), HEK293 (2), Hela (3), Raw264.7 (4), Jurkat (5), and PC-2 (6) cell lysate.

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