

**CD366 Rat monoclonal antibody**

Catalog: MB65859

Host: Rat

Reactivity: Mouse

**BackGround:**

T cell Ig- and mucin-domain-containing molecules (TIMs) are a family of transmembrane proteins expressed by various immune cells. TIM-3 is an inhibitory molecule that is induced following T cell activation. TIM-3 is expressed by exhausted T cells in the settings of chronic infection and cancer, and tumor-infiltrating T cells that co-express PD-1 and TIM-3 exhibit the most severe exhausted phenotype. Tumor-infiltrating dendritic cells (DCs) also express TIM-3. TIM-3 expression on DCs was found to suppress innate immunity by reducing the immunogenicity of nucleic acids released by dying tumor cells. Research studies show that heterodimerization of TIM-3 with CEACAM-1 is critical for the inhibitory function of TIM-3, and co-blockade of TIM-3 and CEACAM-1 enhanced anti-tumor responses in a mouse model of colorectal cancer. In addition, blockade of TIM-3 in mouse models of autoimmunity enhanced the severity of disease. Finally, binding of Galectin-9 to TIM-3 expressed by Th1 cells induces T cell death.

**Product:**

Rat IgG2a kappa. Liquid in PBS, pH 7.3, and 0.02% sodium azide.

**Molecular Weight:**

~ 33 kDa

**Swiss-Prot:**

Q8TDQ0

**Purification&Purity:**

The monoclonal antibody was affinity-purified from Rat antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

**Applications:**

IF (1/50 - 1/200)

**Storage&Stability:**

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

**Specificity:**

Recognizes mouse CD366

**DATA:****Note:**

For research use only, not for use in diagnostic procedure.

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