10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CD2 Antibody [Clone BH1]

Purified Mouse Monoclonal Antibody
Catalog # AH10080

Product Information

Application	FC
Primary Accession	P06729
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Names	BH1
Calculated MW	39448

Additional Information

Gene ID	914
Other Names	T-cell surface antigen CD2, Erythrocyte receptor, LFA-2, LFA-3 receptor, Rosette receptor, T-cell surface antigen T11/Leu-5, CD2, CD2, SRBC
Target/Specificity	Human CD2 protein
Application Note	Flow Cytometry 2.5ul (0.5ug) per test per one million cells.
Format	0.5 ml at 200ug/ml; Conjugated to AF488
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	CD2 Antibody [Clone BH1] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CD2
Synonyms	SRBC
Function	CD2 interacts with lymphocyte function-associated antigen CD58 (LFA-3) and CD48/BCM1 to mediate adhesion between T-cells and other cell types. CD2 is implicated in the triggering of T-cells, the cytoplasmic domain is implicated in the signaling function.
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Expressed in natural killer cells (at protein level).

Background

CD2 interacts through its amino-terminal domain with the extracellular domain of CD58 (also designated CD2 ligand) to mediate cell adhesion. CD2/CD58 binding can enhance antigen-specific T cell activation. CD2 is a transmembrane glycoprotein that is expressed on peripheral blood T lymphocytes, NK cells and thymocytes. CD58 is a heavily glycosylated protein with a broad tissue distribution in hematopoietic and other cells, including endothelium. Interaction between CD2 and its counter receptor LFA3 (CD58) on opposing cells optimizes immune system recognition, thereby facilitating communication between helper T lymphocytes and antigen-presenting cells, as well as between cytolytic effectors and target cells.

References

1. Wang MY et. al. An effective immuno-magnetic method for bone marrow purging in T cell malignancies. Bone Marrow Transplant. 1992;9(5):319-23.