

Rabbit Monoclonal Antibody to Human CD48 / SLAMF2



Catalog Number: 10797-R009

General Information	
Immunogen:	Recombinant Human CD48 / SLAMF2 Protein (Catalog#10797-H08H)
Clone ID:	009
Ig Type:	Rabbit IgG
Applications:	WB
Specificity:	Human CD48 / SLAMF2
Formulation:	0.2 µm filtered solution in PBS with 5% trehalose
Storage:	< -20° C

Preparation

This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Human CD48 / SLAMF2 (rh CD48 / SLAMF2; [Catalog#10797-H08H](#); NP_001769.2; Met 1-Ser 220).

Applications

Western blot – This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Human CD48 in WB. Using a DAB detection system, the detection limit for Human CD48 is approximately 2 ng/lane under non-reducing conditions and 1 ng/lane under reducing conditions.

Specificity

Human CD48 / SLAMF2

No cross-reactivity in ELISA with
Mouse CD48

Human TNFRSF4

Human cell lysate (293 cell line)

Storage

This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -70°C. **Preservative-Free.**

Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. **Avoid repeated freeze-thaw cycles.**

Background

CD48, also known as SLAMF2, BCM-1 and BLAST-1, is a GPI-linked protein belonging to the CD2 subfamily of immunoglobulin superfamily molecules. In rodents, CD48 is the ligand for CD2 whereas in humans, CD58 is the ligand for CD2. Human CD48 cDNA encodes a 243 aa precursor that includes a 26 aa signal sequence, a 194 aa mature protein that contains one Ig-like V-type domain and one Ig-like C2-type domain, and a 23 aa C-terminal propeptide. It has a high degree of sequence homology to CD58 (LFA-3), and human CD48 shares approximately 50% aa sequence identity with mouse and rat CD48. CD48 is expressed on most lineage-committed hematopoietic cells but not on hematopoietic stem cells or multipotent hematopoietic progenitors. CD48 performs biological functions in a variety of processes including adhesion, pathogen recognition, cellular activation, and cytokine regulation, and emerges as a critical effector molecule in immune responses.

Reference

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6. Bhat, R. et al., 2006, J. Leukocyte Biol. 79: 417-24.

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