

## Anti-CD84 Antibody (9Z499)

### Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	9Z499
Purification:	Protein A

### Applications

Verified Activity:	<p>1. CD84 was immunoprecipitated using:</p> <ul style="list-style-type: none"><li>-Lane A:0.5 mg Raw264.7 Whole Cell Lysate</li><li>-0.5 µL anti-CD84 rabbit monoclonal antibody and 15 µL of 50 % Protein G agarose.</li><li>-Primary antibody:</li><li>-Anti-CD84 rabbit monoclonal antibody, at 1:500 dilution.</li><li>-Secondary antibody:</li><li>-Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution.</li><li>-Developed using the odyssey technique.</li><li>-Performed under reducing conditions.</li><li>-Predicted band size: 62 kDa.</li><li>-Observed band size: 62 kDa.</li></ul> <p>2. Anti-CD84 rabbit monoclonal antibody at 1:500 dilution.</p> <ul style="list-style-type: none"><li>-Lane A: RAW264.7 Whole Cell lysate.</li><li>-Lysates/proteins at 30 µg per lane.</li><li>-Secondary</li><li>-Goat Anti-Rabbit IgG H&amp;L (Dylight800) at 1/10000 dilution.</li><li>-Developed using the Odyssey technique.</li><li>-Performed under reducing conditions.</li><li>-Predicted band size:39 kDa.</li><li>-Observed band size:39 kDa</li></ul>
Application:	ELISA,IP,WB
Recommended	WB: 1:500-1:1000; ELISA: 1:25000-1:50000; IP: 0.2-1 µL/mg of lysate

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein: Human CD84 protein (TMPY-00715)  
Antigen Species: Human  
Synonyms: CD84 molecule  
Biology Area: ITIM/ITAM Immunoreceptors and Related Molecules

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### Research Background

The CD2 family receptors are type I transmembrane glycoproteins belonging to immunoglobulin (Ig) superfamily characterized by a membrane-proximal Ig constant 2 (C2) domain and a membrane-distal variable (V) domain that is responsible for ligand recognition. CD84, also known as LY9B and SLAMF5, is a homophilic member of the SLAM (signaling lymphocyte activation molecule) subfamily of the CD2 family. The SLAM family receptors mediate signal transduction through the interaction of its ITSM (immunoreceptor tyrosine-based switch motifs) in the intracellular region and the SH2 domain of adaptor molecules SAP (SLAM-associated protein) and EAT-2 (EWS-activated transcript 2), and accordingly modulate both adaptive and innate immune responses. The CD84-CD84 interaction was independent of its cytoplasmic tail. Thus, CD84 is its own ligand and acts as a costimulatory molecule. CD84 is expressed on cells from almost all hematopoietic lineages and on CD34+ hematopoietic progenitor cells, suggesting that CD84 serves as a marker for committed hematopoietic progenitor cells.

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