

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CD2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 20% cross-reactivity with recombinant human CD2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse CD2 Arg23-Ser203 Accession # P08920
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Mouse CD2
Flow Cytometry	0.25 µg/10 ⁶ cells	Mouse CD3 ⁺ splenocytes
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Mouse CD2, also known as LFA-2 and LFA-3 Receptor, is a 55-66 kDa, variably glycosylated type I transmembrane (TM) protein belonging to the CD2 receptor subset of the Ig superfamily. It is synthesized as a 344 amino acid (aa) precursor that contains a 22 aa signal sequence, a 181 aa extracellular domain (ECD), a 26 aa transmembrane segment, and a proline rich (20%) 115 aa cytoplasmic region. CD2 is found on T and NK cells and binds CD48 in rodents and CD58 in humans. The ECD of mouse CD2 shares 73%, 50% and 44% aa identity with the CD2 ECD in rat, human and equine, respectively.