

Mouse CD45 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF114

DESCRIPTION			
Species Reactivity	Mouse		
Specificity	Detects mouse CD45 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 5% cross-reactivity with recombinant human CD45 is observed.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse CD45 Gln24-Lys425 Accession # NP_035340		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.		
APPLICATIONS			
Please Note: Optimal dilut	ions should be determined by each	laboratory for each applica	tion Occasion Developed and a supplicable in the Tanks in all formation and tion and account after
		idbordiory for edorr applied	ation. General Protocols are available in the Technical Information section on our website.
		Recommended Concentration	Sample
Western Blot		Recommended	
		Recommended Concentration	Sample
Flow Cytometry	try	Recommended Concentration 0.1 µg/mL	Sample Recombinant Mouse CD45 (Catalog # 114-CD)
Western Blot Flow Cytometry Immunocytochemist	•	Recommended Concentration 0.1 µg/mL 2.5 µg/10 ⁶ cells	Sample Recombinant Mouse CD45 (Catalog # 114-CD) Mouse splenocytes

BACKGROUND

Stability & Storage

Shipping

Mouse CD45 (also known as Ly5 and leukocyte common antigen) is a 180-220 kDa variably glycosylated member of the class 1 subtype of the protein tyrosine phosphatase family. It is synthesized as a 1291 amino acid (aa) precursor that contains a 23 aa signal sequence, a 541 aa extracellular domain (ECD), a 22 aa transmembrane segment, and a 705 aa cytoplasmic region. The ECD is coded for by exons 4-16 of the CD45 gene. Alternate splicing of exon 4 (or A) (aa 30-74), exon 5 (or B) (aa 75-123) and exon 6 (or C) (aa 124-169) define different lymphocyte populations and functional stages. Naïve T cells express exon 5 (CD45 RB), while activated T cells express neither exon 4, 5 or 6 (CD 45 RO). B cells express CD45 RABC, while resting NK cells express CD45 RA. Mouse CD45 ECD shares 60% and 44% aa sequence identity with rat and human full-length CD45 ECD, respectively.

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
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.

RD