

Human/Mouse/Rat CD2AP Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF4474

DESCRIPTION		
Species Reactivity	Human/Mouse/Rat	
Specificity	Detects endogenous human, mouse, and rat CD2AP in Western blots.	
Source	Polyclonal Sheep IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-derived recombinant human CD2AP Ile423-Lys580 Accession # Q9Y5K6	
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.	

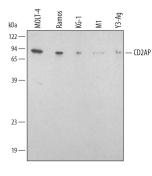
APPLICATIONS

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	0.2 μg/mL	See Below

DATA

Western Blot



Detection of Human/Mouse/Rat CD2AP by Western Blot. Western blot shows lysates of MOLT-4 human acute lymphoblastic leukemia cell line, Ramos human Burkitt's lymphoma cell line, KG-1 human acute myelogenous leukemia cell line, M1 mouse myeloid leukemia cell line, and Y3-Ag rat myeloid cell line. PVDF membrane was probed with 0.2 µg/mL of Human/Mouse/Rat CD2AP Antigen Affinitypurified Polyclonal Antibody (Catalog # AF4474) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for CD2AP at approximately 80 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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. 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

CD2AP (CD2-associated protein; also known as CMS) is an 80 kDa member of the CIN85/CD2AP family of adaptor proteins. Although CD2AP is ubiquitously expressed, it is often associated with glomerular podocytes. CD2AP serves as a scaffold between membrane proteins and the cytoskeleton. Through a Pro-rich region and SH3 domains, it is known to bind to such proteins as CD2, c-CBL, and p130^{Cas}. Human CD2AP is 639 amino acids (aa) in length. It contains three SH3 homology domains (aa 4-324), one Pro-rich region (aa 336-422) and a C-terminal coiled-coil region that mediates homodimerization. Over aa 423-580, human CD2AP shares 96% and 79% aa identity with dog and mouse CD2AP, respectively.

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