bio-techne® RDSYSTEMS

Human Proteinase 3/Myeloblastin/PRTN3 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF6134

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Proteinase 3/Myeloblastin/PRTN3 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	S. <i>frugiperda</i> insect ovarian cell line <i>Sf</i> 21-derived recombinant human Proteinase 3/Myeloblastin/PRTN3 Ala26-Arg249 Accession # P24158
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	1 µg/mL	See Below	
Simple Western	10 µg/mL	See Below	

DATA

Western Blot Simple Western Detection of Human Detection of Human PBMC PBL Proteinase 3/Myeloblastin/ Proteinase PRTN3 by Western Blot. 3/Myeloblastin/PRTN3 by kDa 09 Simple Western[™]. Simple Western blot shows lysates of HL-230 -180 kDa 60 human acute promyelocytic Western lane view shows lysates leukemia cell line, human 116 of human peripheral blood 55 peripheral blood lymphocytes mononuclear cell tissue, loaded at 66 (PBL), and human peripheral 0.2 mg/mL. A specific band was blood mononuclear cells (PBMC). detected for Proteinase 40 37 -PVDF Membrane was probed with 3/Myeloblastin/PRTN3 at Proteinase 3/PRTN3 1 µg/mL of Sheep Anti-Human approximately 32 kDa (as Proteinase 3/Myeloblastin/PRTN3 indicated) using 10 µg/mL of Proteinase 3 29 Antigen Affinity-purified Polyclonal Sheep Anti-Human Proteinase 12 Antibody (Catalog # AF6134) 3/Myeloblastin/PRTN3 Antigen followed by HRP-conjugated Anti-Affinity-purified Polyclonal Sheep IgG Secondary Antibody Antibody (Catalog # AF6134) 20 (Catalog # HAF016). A specific followed by 1:50 dilution of HRPband was detected for Proteinase conjugated Anti-Sheep IgG 3/Myeloblastin/ PRTN3 at Secondary Antibody (Catalog # approximately 32 kDa (as HAF016). This experiment was indicated). This experiment was conducted under reducing conducted under reducing conditions and using the 12-230 conditions and using Immunoblot kDa separation system. Buffer Group 8. 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

Proteinase 3 (PRTN3), also known as Myeloblastin (MBN), is a 32-33 kDa member of the peptidase S1 family of enzymes. It is expressed by monocytes and neutrophils, the latter of which either secretes it, sequesters it in azurophilic granules, or expresses it on the cell surface. When secreted, it acts on HK and activates the kinin pathway. In azurophilic granules, it aids in the digestion of phagocytosed material. On the cell surface, it likely acts on ECM. Human PRTN3 proprecursor is 231 amino acids (aa) in length. It contains an Ala26Glu27 propeptide that is removed during maturation, a 221 aa mature enzyme (aa 28-248), and an eight aa C-terminal propeptide (aa 249-256). Within the cell, a 35 kDa immature form exists; on the cell surface, both constitutively inactive, and induced active forms may be found, often in a noncovalent association with CD177/NB1. Over aa 26-249, human PRTN3 shares 68% aa identity with mouse PRTN3.

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