RD SYSTEMS a biotechne brand

Monoclonal Mouse IgG_{2A} Clone # 161212 Catalog Number: MAB10522

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human EN-RAGE/S100A12 in Western blots.		
Source	Monoclonal Mouse IgG _{2A} Clone # 161212		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	<i>E.coli</i> -derived recombinant human EN-RAGE/S100A12 Met1-Glu92 Accession # NP_005612		
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 Iyophilized 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	2 μg/mL	See Below

DATA					
Western Blot kDa kDa 100- 75- 50- 37- 25- 20- 15- 10- 10-	Detection of Human EN-RAGE/S100A12 by Western Blot. Western blot shows lysates of human granulocytes. PVDF Membrane was probed with 2 µg/mL of Human EN-RAGE/S100A12 Monoclonal Antibody (Catalog # MAB10522) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # Catalog # HAF018). A specific band was detected for EN- RAGE/S100A12 at approximately 10 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.				
PREPARATION AND STORAGE					
Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.				
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

EN-RAGE, also known as S100A12 and Calgranulin C, is a 10 kDa secreted molecule that belongs to the S100 family of calcium-binding proteins. EN-RAGE contains two EF-hand domains and forms dimers and hexamers in solution. EN-RAGE is overexpressed at sites of inflammation and interacts with RAGE on endothelial cells, lymphocytes, and monocytes to promote inflammatory responses. Human EN-RAGE shares 66% and 70% amino acid sequence identity with bovine and porcine EN-RAGE, respectively; mouse and rat orthologs have not been identified.

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Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956 USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373 Europe | Middle East | Africa TEL +44 (0)1235 529449