Protein A Antibody

Monoclonal Rat IgG_{2A} Clone # 946418 Catalog Number: MAB99761

RD SYSTEMS a biotechne brand

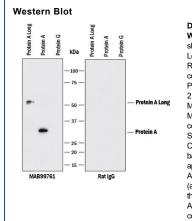
DESCRIPTION		
Specificity	Detects recombinant Protein A in direct ELISA and Western blots.	
Source	Monoclonal Rat IgG _{2A} Clone # 946418	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Recombinant Protein A	
Formulation Lyophilized from a 0.2 μm filtered solution 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

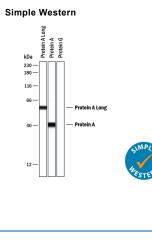
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below
Simple Western	20 µg/mL	Recombinant Protein A Long and Recombinant Protein A

DATA



Detection of Protein A by Western Blot. Western blot shows Recombinant Protein A Long, Recombinant Protein A, and Recombinant Protein G (negative control). The left panel of the PVDF membrane was probed with 2 µg/mL of Rat Anti-Protein A Monoclonal Antibody (Catalog # MAB99761) followed by HRPconjugated Anti-Rat IgG Secondary Antibody (Catalog # Catalog # HAF005). A specific band was detected for Protein A at approximately 33 kDa and Protein A Long at approximately 55 kDa (as indicated). To show specificity, the right panel was probed with Anti-Rat IgG Antibody (negative control). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



Detection of Protein A by Simple Western[™]. Simple Western lane view recombinant Protein A Long, recombinant Protein A, and recombinant Protein G (negative control), loaded at 0.2 mg/mL. A specific band was detected for Protein A at approximately 40 kDa and Protein A Long at approximately 50 kDa (as indicated) using 20 µg/mL of Rat Anti-Protein A Monoclonal Antibody (Catalog # MAB99761) followed by 1:50 dilution of HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE		
Reconstitute at 0.5 mg/mL in sterile PBS.		
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		
 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

The recombinant Protein A is a genetically engineered protein containing 5 IgG-binding regions of protein A. Cell wall binding region, cell membrane binding region and albumin binding region have been removed from the recombinant Protein A to ensure the maximum specific IgG binding. The recombinant Protein A is used in purification of polyclonal or monoclonal IgG antibodies. Protein A binds to various human, mouse and rat IgG subclasses (e.g., human IgG1, IgG2, IgG4; mouse IgG2a, IgG2b, IgG3; rat IgG2c). It also binds to total IgG from rabbit, guinea pig, pig, dog and cat.

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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