

**DESCRIPTION**

<b>Specificity</b>	Detects Protein A in direct ELISA.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 1051739
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Recombinant Protein A
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	2 µg/mL	Protein A Long, Protein A, Protein G (neg)
<b>Simple Western</b>	20 µg/mL	Protein A Long, Protein A, Protein G (negative control)

**DATA**

**Western Blot**

**Detection of Multi-species Protein A by Western Blot.** Western blot shows recombinant Protein A Long, Protein A, Protein G (neg). PVDF membrane was probed with 2 µg/mL of Rat Anti-Protein A Monoclonal Antibody (Catalog # MAB99763) (Left) or an irrelevant Rat IgG (Right) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for Protein A at approximately 55, 33 kDa (as indicated) only with MAB99763. This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

**Simple Western**

**Detection of Multi-species Protein A by Simple Western™.** Simple Western lane view shows lysates of Protein A Long, Protein A, Protein G (negative control), loaded at 0.2 mg/mL. A specific band was detected for Protein A at approximately 40, 58 kDa (as indicated) using 20 µg/mL of Rat Anti-Protein A Monoclonal Antibody (Catalog # MAB99763) 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**

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**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.