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10-10050: Protein A Monoclonal Antibody (Clone: ABM4B3.1G3)

Clonality :	Monoclonal
Clone Name :	ABM4B3.1G3
Application :	ELISA,WB
Gene :	spa
Format :	Purified
Isotype :	Mouse IgG2b, kappa
Immunogen Information :	Protein A from Staphylococcus aureus

Description

Protein A (PA) is a 42 kDa surface protein originally found in the cell wall of the Gram positive bacteria Staphylococcus aureus. It has the specific ability to bind with the constant (Fc) portion of immunoglobulin molecules from various different species. Protein A is encoded by the polymorphic X-region and functions as an immunoglobulin-binding protein, characteristically it has the ability to bind with the 'Fc-region' of IgG.

Due to its high affinity for Fc region of human IgG, it is extensively used in affinity chromatography process required for the purification of antibodies. However, one of the major disadvantages of this method of purification is co elution or leaching of PA along with the target antibody.

Product Info

Amount :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Recommended dilutions: WB: 0.1-1 µg/ml, ELISA: 1 µg/ml. However, this need to be optimized based on the research applications.

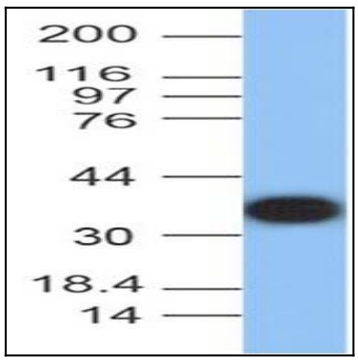


Figure-1: Western blot analysis of Protein A. Anti-Protein A antibody (Clone: ABM4B3.1G3) was used at 0.1 µg/ml on Recombinant protein.

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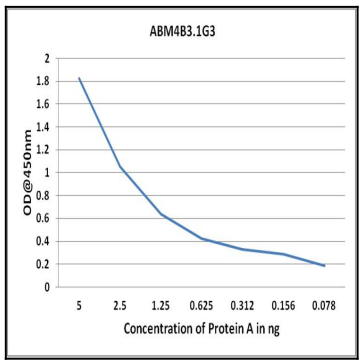


Figure-2: An indirect ELISA is carried out by coating Protein A in in serial dilution from 05 ng to 0.078ng and using 100 ng of purified ABM4B3.1G3 monoclonal antibody . Peroxidase conjugated Goat-Anti mouse antibody was used at 1:5000 dilution.

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