

For Research Use Only

BSA Depletion Agarose Kit



www.ptgcn.com

Catalog Number: **MG-3232AK**

Basic Information

Catalog Number:

MG-3232AK

Type:

VHH

Applications:

Depletion (Removal of BSA from Antibody)

Class:

Recombinant - Animal free production

Description

ChromoTek BSA Depletion Agarose consists of an anti-BSA VHH (Nanobody), which is coupled to agarose beads. It can be used for fast & efficient removal of BSA from antibodies that are supplied with BSA containing buffers.

Note: BSA Depletion Agarose Kits contain spin columns (cat. # sct).

Affinity

3 nM

Storage

Storage:

Upon arrival store at +4°C / do not freeze!

Storage Buffer:

20% Ethanol

For technical support and original validation data for this product please contact:

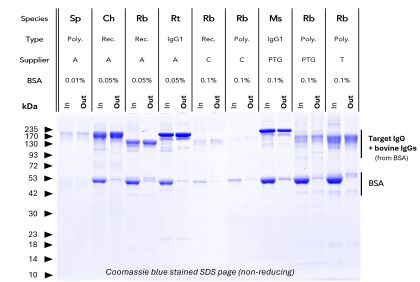
T: 4006900926

E: Proteintech-CN@ptglab.com

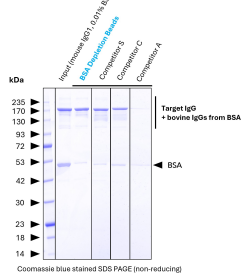
W: www.ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

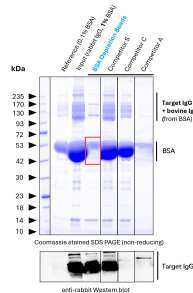
Selected Validation Data



BSA depletion from various antibodies.
Proteintech BSA Depletion Agarose was validated with antibodies from various suppliers and with varying BSA content (from 0 – 0.1%). IgGs run at ~150 kDa (non-reducing SDS PAGE), BSA runs at ~50 kDa. Comparing the Input (In) vs. output (Out) lanes consistently shows successful removal of BSA with minimal residual BSA in the output fraction. Poly = Polyclonal, Ms = Mouse, Rb = Rabbit, Ch, Sp = Sheep, Ch = Chick



BSA depletion benchmarking.
Proteintech BSA Depletion Agarose (Lane 3) was evaluated for BSA depletion efficiency and compared with competitor products. The starting antibody (Lane 2) contains 0.01% BSA. Proteintech BSA Depletion Beads remove approximately 95% of the BSA. In contrast, competitor products partly leave higher residual BSA levels. Other competitor products also exhibit reduced recovery of the target IgG (Lane 6).

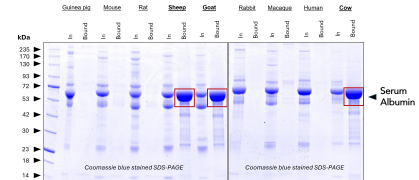


BSA depletion benchmarking.
Proteintech BSA Depletion Beads (Lane 4) were evaluated for BSA depletion efficiency and compared with competitor products. The BSA reference (Lane 2) contains 0.1% BSA and is contaminated with bovine IgG (which is normal). The input antibody contains 1% BSA (Lane 3). Proteintech BSA Depletion Beads removes approximately 90% of the BSA. In contrast,

BSA content	c. BSA [mg/ml]	recommended volume (Agarose - slurry)		
		for 100 µl Ab solution	for 150 µl Ab solution	for 300 µl Ab solution
0.1 %	1	50 µl Beads	150 µl Beads	300 µl Beads
0.5 %	5	200 µl Beads	300 µl Beads	500 µl Beads
1 %	10	300 µl Beads	500 µl Beads	1000 µl Beads

BSA content	c BSA [mg/ml]	Number of BSA depletions per product size (1 ml, 2 ml, 5 ml) following the recommended bead volume (see table above)			
		for 100 µl Ab solution	for 150 µl Ab solution	for 300 µl Ab solution	
1 ml size					
0.1 %	1	20 x	7 x	3 x	
0.5 %	5	3 x	3 x	2 x	
1 %	10	3 x	2 x	1 x	
2 ml size					
0.1 %	1	40 x	14 x	7 x	
0.5 %	5	10 x	7 x	4 x	
1 %	10	7 x	4 x	2 x	
5 ml size					
0.1 %	1	100 x	35 x	17 x	
0.5 %	5	25 x	17 x	10 x	
1 %	10	17 x	10 x	5 x	

Reference table for bead usage per depletion.
Table 1 shows the recommended bead volume for each antibody solution volume (top row) and corresponding BSA concentration (%) (first column). Table 2 shows the expected number of depletions for each unit size (1 mL, 2 mL, and 5 mL), based on the antibody solution volume and BSA concentration, using the recommended bead volumes specified in Table 1.



Immunoprecipitation of serum albumin from different species using BSA Depletion Agarose. BSA Depletion beads were used to test for cross reactivity to albumin from other species. As expected, strong cross-reactivity to albumin from closely related species (bovid family: sheep, goat) can be observed. Other serum albumin species do not bind to the beads (e.g., HSA from humans)