

Product Data Sheet

Protein A&G Agarose IP Reagent

Catalog #	Source	Reactivity	Applications
CRG1020		N/A	IP
Description	Pro	tein A&G is provided a	s an agarose conjugate for use in immunoprecipitation
	only	. The product is provid	led as 1 ml agarose in 2.0 ml PBS. Protein A&G-Agarose
	is p	re-blocked with BSA to	reduce non-specific immunoglobulin binding. Sufficient
	pro	duct is provided for 10	0 immunoprecipitation reactions, to be used at 20 ul
	resu	spended volume per	reaction.
Specificity	Pro	tein A+G-Agarose is su	itable for immunoprecipitation of mouse IgG1, IgG2a,
	lgG2	2b, IgG3 and IgA, rat Ig	G1, IgG2a, IgG2b and IgG2c, rabbit and goat polyclonal
	anti	bodies, and human Ig	G1, IgG2, IgG3 and IgG4.
Form	Pro	tein A&G-Agarose in P	BS
Directions for U	se 1. Ir	ncubate cultured cells	(80 - 90% confluent monolayer in 100 mm cell culture
	plat	e, or approximately 2	- 5 x 10 ⁷ suspension cells in flask) in methionine-free
	meo	dium containing 5% dia	alyzed fetal calf serum for 1 hour at 37 °C. The same
	pro	cedure can be used for	cells labeled with other radioactive amino acids (e.g.,
	14C	or 3H) or with γ32P-o	rthophosphate. Cell labeling must be carried out in
	meo	lium lacking the releva	ant amino acid or in phosphate-free medium.
	2. R	emove medium and re	eplace with 3 ml methionine-free medium containing 5%
	dial	yzed fetal calf serum a	nd 100 uCi/ml 35S-methionine. Incubate 1 hour at 37 °C.
	For	some proteins a longe	r labeling period (up to 18 hours) is preferable.
	3. C	arefully remove radioa	active medium with Pasteur pipette and wash cell
	moi	nolayer with PBS.	
	4. A	dd 3 ml ice cold RIPA b	ouffer to cell monolayer and incubate at 4 °C for 10
	min	utes. For suspension c	ells, add the RIPA buffer to washed cell pellet in a 15 ml
	con	ical centrifuge tube.	
	5. D	isrupt cells by repeate	d aspiration through a 21 gauge needle and transfer to a
	15 r	nl conical centrifuge to	ıbe.

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6. Wash cell culture plate with additional 1.0 ml ice cold RIPA buffer and combine with original extract.

7. Pellet cellular debris by centrifugation at 10,000xg for 10 minutes at 4 °C. Transfer supernatant to a fresh 15 ml conical centrifuge tube on ice. Preclear lysate (optional step) by adding 1.0 ug of the appropriate control IgG (normal mouse, rat, rabbit or goat IgG, corresponding to the host species of the primary antibody), together with 20 ul of resuspended volume of Protein A&G-Agarose. Incubate at 4 °C for 30 minutes.

8. Pellet beads by centrifugation at 2,500 rpm (approximately 1,000xg) for 5 minutes at 4 °C. Transfer supernatant (cell lysate) to a fresh 15 ml conical centrifuge tube on ice.

9. Transfer 1 ml of the above cell lysate, or approximately 100 - 500 ug total cellular protein, to a 1.5 ml microcentrifuge tube. Add 1 - 10 ul (i.e., 0.2 - 2 ug) primary antibody (optimal antibody concentration should be determined by titration) and incubate for 1 hour at 4 °C.

10. Add 20 ul of resuspended volume of Protein A&G-Agarose. Cap tubes and incubate at 4° C on a rocker platform or rotating device for 1 hour to overnight.
11. Collect immunoprecipitates by centrifugation at 2,500 rpm (approximately 1,000xg) for 5 minutes at 4 °C. Carefully aspirate and discard radioactive supernatant.

12. Wash pellet 4 times with 1.0 ml RIPA buffer (more stringent) or PBS (less stringent), each time repeating centrifugation step above.

13. After final wash, aspirate and discard supernatant and resuspend pellet in 40 ul of 1x electrophoresis sample buffer.

14. Boil samples for 2 - 3 minutes and analyze 20 ul aliquots by SDS-PAGE and autoradiography. Unused samples may be stored at -20 °C.

15. Optional: After boiling, samples may be centrifuged to pellet the agarose beads followed by SDS-PAGE analysis of the supernatant.

Storage/Stability Store at 4°C for one year, do not freeze.

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