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ORDERING
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TECHNICAL RESOURCES
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[MSDS](#)

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[Credit Info](#)

[Returns Info](#)

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ImmunoPure and UltraLink Immobilized Protein L, Protein A, Protein G and Protein A/G

Protein A, Protein G, Protein A/G and Protein L are native and recombinant proteins of microbial origin with the ability to bind to mammalian immunoglobulin molecules. Pierce's highly purified form of these proteins is covalently coupled to a Sepharose support to provide an efficient method of purifying antibodies. The "Plus" format of these affinity supports has twice the amount of protein immobilized per ml of gel. Pierce supplies Protein A, Protein G and Protein A/G immobilized on UltraLink Biosupport Medium. The UltraLink Biosupport Medium is very hydrophilic and durable. It is a perfect support when working with large volumes of samples requiring fast-flow techniques and large-scale purifications.

The interaction between the various proteins and IgG is not equivalent for all species or all antibody subclasses. Protein A/G is a genetically engineered protein that combines the IgG binding profiles of both Protein A and Protein G. The table below will help you decide which affinity support is best for your application.

	Recombinant Protein L	Native Protein A	Recombinant Protein A	Recombinant Protein G	Protein A/G
Source	<i>Peptostreptococci</i>	<i>Staphylococcus aureus</i>	<i>Bacillus</i>	<i>Streptococci</i>	<i>Bacillus</i>
Molecular Weight	35,800	42,000	32,000	32,000	45,000-47,000
Number of Binding Sites for IgG	4	4	4	2	4
Albumin Binding Site	no	no	no	no	no
Optimal Binding pH	7.5	8.2	8.2	5	5-8.2

Binding Capabilities of Immunoglobulin Proteins

Antibody	Protein L	Protein A	Protein G	Protein A/G
Human IgG	s	s	s	s
Mouse IgG	s	s	s	s
Rabbit IgG	w	s	s	s
Goat IgG	nb	w	s	s
Rat IgG	s	w	m	m
Sheep IgG	nb	w	s	s
Cow IgG	nb	w	s	s

Guinea Pig IgG	-	s	w	s
Hamster IgG	-	m	-	-
Pig IgG	s	s	w	s
Horse IgG	-	w	s	s
Donkey IgG	-	m	s	s
Dog IgG	-	s	w	s
Cat IgG	-	s	w	s
Monkey IgG (Rhesus)	-	s	s	s
Chicken IgG	nb	nb	nb	nb
Human IgM	s	w	nb	w
Human IgE	s	m	nb	m
Human IgD	s	nb	nb	w
Human IgA	s	w	nb	w
Human IgG1	s	s	s	s
Human IgG2	s	s	s	s
Human IgG3	s	w	s	s
Human IgG4	s	s	s	s
Mouse IgG1	s	w	m	m
Mouse IgG2a	s	s	s	s
Mouse IgG2b	s	s	s	s
Mouse IgG3	s	s	s	s
Rat IgG1	-	w	m	m
Rat IgG2a	-	nb	s	s
Rat IgG2b	-	nb	w	w
Rat IgG2c	-	s	s	s
Bovine IgG1	nb	w	s	s
Bovine IgG2	nb	s	s	s
Sheep IgG1	nb	w	s	s
Sheep IgG2	nb	s	s	s
Goat IgG1	nb	w	s	s
Goat IgG2	nb	s	s	s
Horse IgG(ab)	-	w	nb	w
Horse IgG(c)	-	w	nb	w
Horse IgG(T)	-	nb	s	s

Mouse IgM	s	nb	nb	nb
Human IgA1	s	w	nb	w
Human IgA2	s	w	nb	w

w = weak binding, m = medium binding, s = strong binding, nb = no binding, -- means information not available

Pierce and Endogen are brands of [PERBIO SCIENCE AB](#).

Visit the new web site of [Pierce Nucleic Acid Technology](#).



1-800-874-3723

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