Binding affinities of recombinant Protein L, Protein A, and Protein G

Antibody species	Protein L*	Protein A	Protein G
Human IgG1	++++	++++	++++
Human IgG2	++++	++++	++++
Human IgG3	++++	-	++++
Human IgG4	++++	++++	++++
Human IgA	++++	++	-
Human IgD	++++	++	-
Human IgE	++++	++	-
Human IgM	++++	++	-
Mouse IgG1	++++	+	++
Mouse IgG2a	++++	++++	++++
Mouse IgG2b	++++	+++	+++
Mouse IgG3	++++	++	+++
Mouse IgM	++	+/-	-
Rat IgG1	++++	-	+
Rat IgG2a	++++	-	++++
Rat IgG2b	+++++	-	++
Rat IgG2c	++++	+	++
Rat IgM	+	+/-	-
Rabbit Ig	+	++++	+++
Hamster Ig	++++	+	++
Guinea Pig Ig	++	++++	++
Bovine Ig	-	++	++++
Sheep Ig	-	+/-	++
Goat Ig	-	+/-	++
Pig Ig	++++	+++	+++
Chicken Ig	++	-	+

Antibody fragments	Protein L*	Protein A	Protein G
Human Fab	++++	+	+
Human F(ab')2	++++	+	+
Human scFv	++++	+	-
Human Fc	-	++	++
Human κ	++++	-	-
Human λ	-	-	-

*It should be noted that recombinant Protein L binding is restricted to specific subclasses of the κ domain. Thus the affinity indicated in the table is not general for the IgG subclass but accounts only for those antibodies carrying the right kappa light chain (see table below).

Antibody κ light chains	Protein L
Human kappa I	++++
Human kappa II	-
Human kappa III	++++
Human kappa IV	++++
Mouse kappa I	++++
Mouse kappa II	-
Mouse kappa V	+

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