

PROTEIN A/G COATED PCR PLATES

The Biomat product is a PCR plate coated with recombinant Protein A/G and a protein to block non-specific binding sites and to maintain stable activity.

Protein A/G includes four Fc binding domains from Protein A and two from Protein G making it a more versatile tool. Protein A/G specifically binds the Fc region of immunoglobulins of many mammalian species with different degrees of binding strenght (see table 1 below), with an orientation that allows the $F(ab)_2$ binding sites to be freely available for efficient binding to epitope. When coated onto PCR plate, the Protein A/G can securely capture IgG applied directly or as antigen/antibody complexes.

Example of applications:

- specific and sterically oriented bond of antibodies
- highest specificity and capacity
- retains antibody activity and orients antibody for maximum binding
- generally not suitable for sandwich ELISA assays

Product specifications

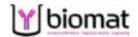
Coating

Recombinant Protein A/G (M.W. 50.4 kDa) is a fusion protein between Protein A and Protein G. The Protein A portion is from *Staphylococcus aureus* segments E, D, A, B and C and the Protein G portion is from *Streptococcus sp.* segments C1 and C3, expressed in *E. coli*. Protein A/G is coated using 100 μ I/tube. The PCR plates are post-coated (blocked) for low non specific binding and long-term stability.

Storage and Stability

The Protein A/G PCR plates, under the indicated storage conditions 2-8 °C, are stable until the expiration date printed on the label.

If opened, store in closed pouch with desiccant and use within the expiration date.



Species	Antibody Class	Protein A	Protein G	Protein A/G
Human	Total IgG	S	S	S
	IgG ₁ , IgG ₂ , IgG ₄	S	S	S
	IgG₃	W	S	S
	IgM	W	N	W
	IgD	N	N	N
	IgA	W	N	W
	Fab	W	W	W
	ScFv	W	N	W
Mauga	Total IgC	S	S	S
Mouse	Total IgG IgG ₁	W	M	M
	IgG _{2a} , IgG _{2b} , IgG ₃	S	S	S
	IgM	N	N	N N
	1giri	14	IV	IV.
Rabbit	Total IgG	S	S	S
- Tabbit	Total 190			
Guinea Pig	Total IgG	S	W	S
	J.			
Rat	Total IgG	W	M	M
	IgG ₁	W	М	M
	IgG _{2a}	N	S	S
	IgG _{2b}	N	W	W
	IgG _{2c}	S	S	S
Goat	Total IgG	W	S	S
	IgG ₁	W	S	S
	IgG ₂	S	S	S
Sheep	IgG	W	S	S
	IgG ₁	W	S	S
	IgG ₂	S	S	S
Chicken	Total IgY	N	N	N
Cilickeii	Total 191	IV	IN	IV
Hamster	Total IgG	M	M	M
- Trainistor	Total 190		11	11
Horse	Total IgG	W	S	S
	IgG(ab)	W	N	W
	IgG(c)	W	N	W
	IgG(T)	N	S	S
Pig	Total IgG	S	W	S
Bovine	Total IgG	W	S	S
	IgG ₁	W	S	S
	IgG ₂	S	S	S
Dog	Total IgG	S	W	S
Cat	Total IgG	S	W	S
	T 1 1 7 0			
Monkey	Total IgG	S	S	S
Donkov	Total IaC	M		C
Donkey	Total IgG	M	S	S

S: strong binding; M: medium binding; W: weak binding; N: no binding