BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY Co.,Ltd.
3942 B Valley Ave, Pleasanton, CA, 94566

Phone: 888-466-3604 Fax: 925-215-2184 Email: boster@bosterbio.com Web: www.bosterbio.com

Biotin Conjugated Protein G

Basic Information

Catalog Number	BA1026-0.5
Size	0.5 mL
Concentration	1 mg/mL
Host	E. coli
Conjugation	Biotin
Form	Concentrated, Liquid
Tested Application	IHC, ELISA
Contents	0.5 mg of biotin conjugated protein G, Biotin: Ab=10:1, 0.01 M PBS, 50% glycerol.
Specificity	Biotin conjugated antibody is specific for Protein G, human IgG, mouse IgG1, rabbit IgG, guinea pig IgG, rat IgG, goat IgG, sheep IgG, cow IgG, horse IgG.

Suggested Working Concentration

Immunohistochemistry: 5-10 μg/mL

ELISA: 0.05-0.2 μg/mL

Optimal working dilutions must be determined by end users.

Application Notes

This antibody must be used with various kinds of enzymes or fluorescence conjugated avidin (streptavidin) in IHC and ELISA.

Dilute with neutral PBS or TBS.

Storage

At -20° C for one year from date of receipt. Avoid repeated freezing and thawing.

Product Description

Protein G is an immunoglobulin-binding protein expressed in group C and G Streptococcal bacteria much like Protein A but with differing binding specificities. It is a 65-kDa (G148 protein G) and a 58 kDa (C40 protein G) cell surface protein that has found application in purifying antibodies through its binding to the Fab and Fc region. The native molecule also binds albumin, but because serum albumin is a major contaminant of antibody sources, the albumin binding site has been removed from recombinant forms of Protein G.

Table 1

Binding capabilities for immunoglobulin proteins and protein A, G and A/G

Species	Antibody Class	Protein A	Protein G	Protein A/G
Human	Total IgG	S	S	S
	IgG1	S	S	S
	IgG2	S	S	S
	IgG3	W	S	S
	IgG4	S	S	S
	IgM	W	NB	W
	IgA	W	NB	W
	IgD	NB	NB	NB
	Fab	W	W	W
Mouse	Total IgG	S	S	S
	IgG1	W	M	M
	IgG2a	S	S	S
	IgG2b	S	S	S
	IgG3	S	S	S
	IgM	NB	NB	NB
Rat	Total IgG	W	M	M
	IgG1	W	M	M
	IgG2a	NB	S	S
	IgG2b	NB	W	W
	IgG2c	S	S	S
Cow	Total IgG	W	S	S
	IgG1	W	S	S
	IgG2	S	S	S
Goat	Total IgG	W	S	S
	IgG1	W	S	S
	IgG2	S	S	S
Sheep	Total IgG	W	S	S
	IgG1	W	S	S
	IgG2	S	S	S
Horse	Total IgG	W	S	S
Rabbit	Total IgG	S	S	S
Guinea Pig	Total IgG	S	W	S
Pig	Total IgG	S	W	S
Dog	Total IgG	S	W	S
Cat	Total IgG	S	W	S
Chicken	Total IgY	NB	NB	NB

Binding will only occur if the appropriate kappa light chains are present. The binding affinity only refers to species and

subtypes with the correct kappa light chains. Lambda light chains and some kappa light chains will not bind.

Notes: W= weak binding M=medium binding S=strong binding NB=no binding