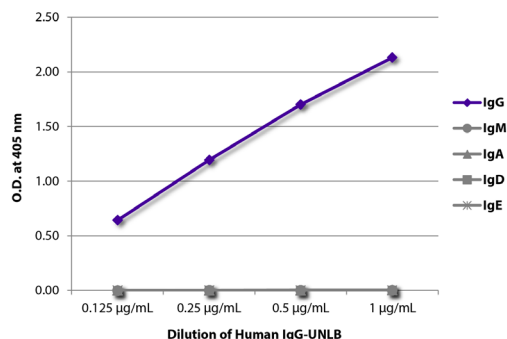




Human IgG Isotype Control

Cat. No.	Format	Size
0150-01	Purified (UNLB)	1.0 mg
0150-04	Alkaline Phosphatase (AP)	1.0 mL
0150-05	Horseradish Peroxidase (HRP)	1.0 mL
0150-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg



ELISA plate was coated with serially diluted Human IgG-UNLB (SB Cat. No. 0150-01). Immunoglobulin was detected with Mouse Anti-Human IgG Fc-BIOT (SB Cat. No. 9040-08), Mouse Anti-Human IgM-BIOT (SB Cat. No. 9020-08), Mouse Anti-Human IgA₁-BIOT and Mouse Anti-Human IgA₂-BIOT (SB Cat. No. 9130-08 and Cat. No. 9140-08), Mouse Anti-Human IgD-BIOT (SB Cat. No. 9030-08), and Mouse Anti-Human IgE Fc-BIOT (SB Cat. No. 9160-08) followed by Streptavidin-HRP (SB Cat No. 7100-05) and quantified.

Description

Isotype	Human IgG
Source	Normal human plasma

Applications

Quality tested applications include –
ELISA ¹⁻⁴

Other referenced applications include –
WB ¹⁰
Multiplex ⁵
Microarray ⁶
In vivo control ^{7,8}

Working Dilutions

ELISA	Purified (UNLB) antibody	≤ 1 µg/mL
	AP conjugate	1:1,000 – 1:4,000
	HRP conjugate	1:2,000 – 1:8,000

Other Applications Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

For Research Use Only. Not for Diagnostic or Therapeutic Use.

Handling and Storage

- The purified (UNLB) IgG is supplied as 1.0 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added. Store at 2-8°C.
- The alkaline phosphatase (AP) conjugate is supplied as 1.0 mL in a stock solution of 50 mM Tris/1 mM MgCl₂/50% glycerol, pH 8.0, containing NaN₃ as preservative. Store at 2-8°C or long-term at -20°C.
- The horseradish peroxidase (HRP) conjugate is supplied as 1.0 mL in a stock solution of 50% glycerol/50% PBS, pH 7.4. No preservative added. Store at 2-8°C or long-term at -20°C.
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. Contains no preservative; handle under aseptic conditions. Store at 2-8°C or aliquot into smaller volumes and store at -20°C. Avoid multiple freeze / thaw cycles.
- Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific SDS.

References

1. Huang Z, Phoolcharoen W, Lai H, Piensook K, Cardineau G, Zeitlin L, et al. High-level rapid production of full-size monoclonal antibodies in plants by a single-vector DNA replicon system. *Biotechnol Bioeng*. 2010;106:9-17. (ELISA)
2. He J, Lai H, Brock C, Chen Q. A novel system for rapid and cost-effective production of detection and diagnostic reagents of West Nile virus in plants. *J Biomed Biotechnol*. 2012;2012:106783. (ELISA)
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4. He J, Lai H, Engle M, Gorlatov S, Gruber C, Steinkellner H, et al. Generation and analysis of novel plant-derived antibody-based therapeutic molecules against West Nile virus. *PLoS One*. 2014;9(3):e93541. (ELISA)
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6. Friedman J, Alam SM, Shen X, Xia S, Stewart S, Anasti K, et al. Isolation of HIV-1-neutralizing mucosal monoclonal antibodies from human colostrum. *PLoS One*. 2012;7(5):e37648. (Microarray)
7. Stewart KS, Zhou Z, Zweidler-McKay P, Kleinerman ES. Delta-like ligand 4-Notch signaling regulates bone marrow-derived pericyte/vascular smooth muscle cell formation. *Blood*. 2011;117:719-26. (*In vivo* control)
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9. Phoolcharoen W, Bhoo SH, Lai H, Ma J, Arntzen CJ, Chen Q, et al. Expression of an immunogenic Ebola immune complex in *Nicotiana benthamiana*. *Plant Biotechnol J*. 2011;9:807-16. (Dynamic light scattering)
10. SouthernBiotech published data (WB)

In accordance with current Good Manufacturing and Good Laboratory Practices (cGMP/cGLP), any protein of human blood origin should be handled pursuant to your organization's documented safety procedures and as if it is capable of transmitting infection. This product has **NOT** been tested for viral, bacterial, or other infectious agents such as, but not limited to, HIV, HbsAg, and HCV.

TB0150
07-Oct-21