

Technically  
Speaking

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**Anti-Human IgG Fc  
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL6017AP	Purified	50 µg	1.0 mg/ml	CLCMG2A00
CL6017AP-2	Purified	250 µg	1.0 mg/ml	CLCMG2A00
CL6017AP-3	Purified	500 µg	1.0 mg/ml	CLCMG2A00
CL6017B	Biotin	100 µg	0.1 mg/ml	CLCMG2A15
CL6017F	FITC	100 µg	0.1 mg/ml	CLCMG2A01
CL6017PE	PE	50 µg	0.1 mg/ml	CLCMG2A04
CL6017HP	HRPO	100 µg	1.0 mg/ml	CLCMG2A07

Isotype: Mouse IgG<sub>2a</sub>

**DESCRIPTION:**

The Fc region of IgG is a homodimer composed of the constant region of the two heavy chains that form the IgG molecule. The Fc region mediates a number of processes including opsonization, antibody dependent cellular cytotoxicity (ADCC), and complement activation through binding to Fc receptors such as CD16, CD32, CD64, and the complement factor C1.

**PRESENTATION:**

**Purified:** Purified IgG buffered in PBS and 0.02% NaN<sub>3</sub>. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.

**Biotin, FITC, and PE:** Biotin/FITC/PE conjugated IgG buffered in PBS, 0.02% NaN<sub>3</sub> and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

**HRPO:** HRPO conjugated IgG buffered in PBS with 40% glycerol (v/v) and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. No NaN<sub>3</sub> with other preservatives.

**STORAGE/STABILITY:**

For all formats, store at + 4°C. DO NOT FREEZE PE conjugates. For long term storage (**Purified/Biotin/FITC/HRPO**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles. For Maximal recovery of contents, please quick-spin vial before opening.

*Continued Overleaf.....*

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**APPLICATION:**

This antibody is suitable for use in ELISA (both capture and detection antibody), Radioimmunoassay, Western Blot and Flow Cytometry.

**\* For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

**SPECIFICATIONS:**

Clone: HP6017

Immunogen: Purified human immunoglobulin

Specificity: Human IgG Fc

ELISA Specificity: human IgG subclass 1 100%  
human IgG subclass 2 100%  
human IgG subclass 3 100%  
human IgG subclass 4 99%  
human IgG Pan (pooled IgG1-4) 100%  
human IgG Fc 100%  
human IgG Fab 0.12%

**REFERENCES:**

1. Hamilton, R.G. et al; Isoelectric focusing-affinity immunoblot analysis of mouse monoclonal antibodies to the four human IgG subclasses. Electrophoresis, 8:127-34, 1987.
2. Papadea, C. et al; Monoclonal antibody-based solid-phase immunoenzymometric assays for quantifying human immunoglobulin G and its subclasses in serum. Clin. Chem., 31: 1940-5, 1985.
3. Jeffries, R. et al; Evaluation of monoclonal antibodies having specificity for human IgG sub-classes: results of an IUIS/WHO collaborative study; Immunol Lett. 10(3-4):223-52, 1985.
4. Reimer, C.B. et al; Evaluation of thirty-one mouse monoclonal antibodies to human IgG epitopes. Hybridoma, 3: 263-75, 1984.

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