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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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Technically
Speaking

CEDARLANE[®] 
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Conveniently Delivering You Today's Innovations
for the Science of Tomorrow™

**Anti-Human IgG₃ (Hinge Region)
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL6050AP	Purified	50 µg	1.0 mg/ml	CLCMG100
CL6050AP-2	Purified	250 µg	1.0 mg/ml	CLCMG100
CL6050AP-3	Purified	500 µg	1.0 mg/ml	CLCMG100
CL6050B	Biotin	100 µg	0.1 mg/ml	CLCMG115
CL6050F	FITC	100 µg	0.1 mg/ml	CLCMG101
CL6050PE	PE	50 µg	0.1 mg/ml	CLCMG104
CL6050HP	HRPO	100 µg	1.0 mg/ml	CLCMG107

Isotype: Mouse IgG₁

DESCRIPTION:

There are four subclasses of IgG present in humans, IgG1, IgG2, IgG3 and IgG4. These IgGs are secreted by B cells and are found in blood and extracellular fluids and provide protection against infections caused by bacteria, fungi and viruses. IgG3 is unique in that it has an extended hinge region of the heavy chain conferring greater relative flexibility of the Fab arms with respect to the Fc region. This greater flexibility allows IgG3 to be particularly effective in the induction of effector functions and inflammatory responses. Its shorter half-life may function to limit the potential of excessive inflammatory responses.

Cedarlane's mouse anti-human IgG3 antibody, clone HP6050 recognizes the hinge region of the heavy chain of human IgG3.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified 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% NaN₃ 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 NaN₃ 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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registered company.

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APPLICATION:

This antibody is suitable for use in ELISA (both capture and detection antibody), Western Blot, Flow Cytometry and Immunohistochemistry with paraffin-embedded and frozen sections.

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

SPECIFICATIONS:

Clone: HP6050

Immunogen: Human IgG₃ myeloma protein.

Specificity: Human IgG₃ Hinge Region.

ELISA Specificity: human IgG subclass 1 – <0.01%
human IgG subclass 2 – <0.01%
human IgG subclass 3 – 100%
human IgG subclass 4 – <0.01%

REFERENCES:

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3. 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.
4. 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.
5. 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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