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Monoclonal Antibody to Human IgG (Fc) - Purified -

Catalog No.:	SM1006P
Quantity:	0.2 mg
Concentration:	1.0 mg/ml
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	MK1A6
Immunogen:	Human IgG polyclonal
Format:	**State:** Liquid purified Ig fraction **Purification:** Protein A chromatography **Buffer System:** PBS **Preservatives:** 0.09% Sodium Azide
Applications:	**ELISA:** 1/1,000-1/10,000. **Western Blot.** **Immunohistochemistry on Frozen Sections** (1/100-1/200). The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. We recommend the use of acetone fixation for frozen sections. **Does not *work on paraffin sections*.** Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This Mouse anti Human IgG (Fc) CH2 domain, clone MK 1 A6 recognizes Human IgG Fc (all subclasses). CH2 and hinge regions have an important role in effector functions of IgG.The epitope detected by clone MK 1 A6 lies within the CH2 domain as determined by haemagglutination and western blotting using IgG heavy chain and myelomas with defined domain deletions. **Species:** Human, Rhesus Monkey. Other species not tested.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Lund J, Takahashi N, Pound JD, Goodall M, Jefferis R. Multiple interactions of IgG with its core oligosaccharide can modulate recognition by complement and human Fc gamma receptor I and influence the synthesis of its oligosaccharide chains. J Immunol. 1996 Dec 1;157(11):4963-9. PubMed PMID: 8943402.

2. Wozniak-Knopp G, Bartl S, Bauer A, Mostageer M, Woisetschläger M, Antes B, et al. Introducing antigen-binding sites in structural loops of immunoglobulin constant domains: Fc fragments with engineered HER2/neu-binding sites and antibody properties. Protein Eng Des Sel. 2010 Apr;23(4):289-97. doi: 10.1093/protein/gzq005. Epub 2010 Feb 11. PubMed PMID: 20150180.
3. Raghuraman S, Park H, Osburn WO, Winkelstein E, Edlin BR, Rehermann B. Spontaneous clearance of chronic hepatitis C virus infection is associated with appearance of neutralizing antibodies and reversal of T-cell exhaustion. J Infect Dis. 2012 Mar 1;205(5):763-71. doi: 10.1093/infdis/jir835. Epub 2012 Jan 31. PubMed PMID: 22293431.
4. Hasenhindl, C. et al. (2013) Stability assessment on a library scale: a rapid method for the evaluation of the commutability and insertion of residues in C-terminal loops of the CH3 domains of IgG1-Fc. Protein Engineering, Design and Selection Sep 4. [Epub ahead of print]
5. Rasti N, Namusoke F, Chêne A, Chen Q, Staalsoe T, Klinkert MQ, et al. Nonimmune immunoglobulin binding and multiple adhesion characterize Plasmodium falciparum-infected erythrocytes of placental origin. Proc Natl Acad Sci U S A. 2006 Sep 12;103(37):13795-800. Epub 2006 Aug 31. PubMed PMID: 16945914.
6. Traxlmayr MW, Lobner E, Hasenhindl C, Stadlmayr G, Oostenbrink C, Rüker F, et al. Construction of pH-sensitive Her2-binding IgG1-Fc by directed evolution. Biotechnol J. 2014 Aug;9(8):1013-22. doi: 10.1002/biot.201300483. PubMed PMID: 24964247.