

## OriGene Technologies Inc.

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## SM1006HRP OriGene EU

## Acris Antibodies GmbH

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## Monoclonal Antibody to IgG (Fc CH2 Domain) - HRP

Catalog No.: SM1006HRP

Quantity: 0.2 mg
Concentration: 1.0 mg/ml
Host / Isotype: Mouse / IgG1
Clone: MK1A6

Immunogen: Human IgG Polyclonal

Format: State: Liquid purfied lg fraction

Purification: Affinity Chromatography on Protein A

Buffer System: Phosphate buffered saline pH7.2 with 0.01% Thiomersal

Label: HRP - Horseradish Peroxidase

**Applications:** ELISA (1/1,000-1/10,000).

Immunohistochemistry on Frozen Sections (1/100-1/200).

Not suitable for 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

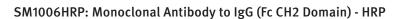
For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com



OG/20150309





- 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.



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