

## Datasheet: 2221-5004P

<b>Description:</b>	SHEEP ANTI HUMAN C1q:HRP
<b>Specificity:</b>	C1q
<b>Other names:</b>	COMPLEMENT COMPONENT 1q
<b>Format:</b>	HRP
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	1 ml

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1/100 - 1/400
Immunoprecipitation			▪	
Western Blotting			▪	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG conjugated to Horseradish Peroxidase (HRP) - liquid
<b>Antiserum Preparation</b>	Antisera to human C1q were raised by repeated immunisation of sheep with highly purified antigen. Purified IgG was prepared from whole serum by protein G affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.01% Thiomersal
<b>Approx. Protein</b>	IgG concentration 1.0 mg/ml

## Concentrations

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**Immunogen** Human C1q.

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## External Database Links

### UniProt:

[P02747](#) [Related reagents](#)

[P02745](#) [Related reagents](#)

[P02746](#) [Related reagents](#)

### Entrez Gene:

[714](#) C1QC [Related reagents](#)

[712](#) C1QA [Related reagents](#)

[713](#) C1QB [Related reagents](#)

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**Synonyms** C1QG

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**RRID** AB\_2067259

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**Specificity** **Sheep anti Human C1q antibody** recognizes human C1q, a sub-component of complement C1. C1q associates with complement components C1r and C1s, which are required for the progression of the proteolytic complement cascade. Deficiency of C1q has been associated with lupus erythematosus and glomerulonephritis ([Troedson \*et al.\* 2013](#)).

Sheep anti human C1q antibody may cross react with C1q in other species.

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## References

1. Nascimento, E.J. *et al.* (2009) Alternative complement pathway deregulation is correlated with dengue severity. [PLoS One. 4:e6782](#)
  2. Lewis, M.J. *et al.* (2007) The different effector function capabilities of the seven equine IgG subclasses have implications for vaccine strategies. [Mol Immunol. 45: 818-27.](#)
  3. Jacobs, B.C. *et al.* (2003) Immunoglobulins inhibit pathophysiological effects of anti-GQ1b-positive sera at motor nerve terminals through inhibition of antibody binding. [Brain. 126: 2220-34.](#)
  4. Arduin, E. *et al.* (2015) Highly reduced binding to high and low affinity mouse Fc gamma receptors by L234A/L235A and N297A Fc mutations engineered into mouse IgG2a. [Mol Immunol. 63 \(2\): 456-63.](#)
  5. Kao, D. *et al.* (2015) A Monosaccharide Residue Is Sufficient to Maintain Mouse and Human IgG Subclass Activity and Directs IgG Effector Functions to Cellular Fc Receptors. [Cell Rep. 13 \(11\): 2376-85.](#)
  6. Gearing, D.P. *et al.* (2016) *In Vitro* and *In Vivo* Characterization of a Fully Felinized Therapeutic Anti-Nerve Growth Factor Monoclonal Antibody for the Treatment of Pain in Cats. [J Vet Intern Med. 30 \(4\): 1129-37.](#)
  7. Baksmeier, C. *et al.* (2021) Modified recombinant human IgG1-Fc is superior to natural intravenous immunoglobulin at inhibiting immune-mediated demyelination. [Immunology. 164 \(1\): 90-105.](#)
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## Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for

short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10094 available at: <a href="https://www.bio-rad-antibodies.com/SDS/2221-5004P">https://www.bio-rad-antibodies.com/SDS/2221-5004P</a> 10094
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Useful Reagents

[AbGUARD® HRP STABILIZER PLUS \(BUF052A\)](#)

[AbGUARD® HRP STABILIZER PLUS \(BUF052B\)](#)

[AbGUARD® HRP STABILIZER PLUS \(BUF052C\)](#)

[TMB CORE \(BUF056A\)](#)

[TMB CORE+ \(BUF062A\)](#)

[TMB SIGNAL+ \(BUF054A\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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