

## Datasheet: 2222-8354

<b>Description:</b>	SHEEP ANTI HUMAN C5
<b>Specificity:</b>	C5
<b>Other names:</b>	COMPLEMENT COMPONENT 5
<b>Format:</b>	Ig Fraction
<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
Immunohistology - Paraffin	▪			1/100
ELISA			▪	
Immunodiffusion	▪			

Where this product 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 product for use in their own system using the appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Ig fraction - liquid
<b>Preparation</b>	Ig fraction prepared by ion exchange chromatography
<b>Buffer Solution</b>	Glycine buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 0.1% E-amino-n-caproic acid (EACA) 0.01% Benzamidine 1 mM ethylenediaminetetraacetic acid (EDTA)
<b>Immunogen</b>	Human C5, purified from plasma.

**External Database  
Links**

**UniProt:**

[P01031](#)   [Related reagents](#)

**Entrez Gene:**

[727](#)   C5   [Related reagents](#)

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**Synonyms**

CPAMD4

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**RRID**

AB\_2067052

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**Specificity**

**Sheep anti human C5 polyclonal antibody** recognizes complement component 5 (C5), a member of the complement system. The complement system consists of a tightly regulated network of proteins. Its activation leads to a sequential cascade of enzymatic reactions, resulting in opsonisation of the pathogens and their removal by phagocytes, as well as cell lysis. Three pathways have been described, the antibody-dependent pathway (classical pathway), the alternative pathway and the lectin activation pathway ([Ehrnthaller 2011](#), [Nesargikar 2012](#)). The complement system plays a critical role in both innate and adaptive immune responses. It is also involved in tissue regeneration, tumor growth and some human pathologies ([Sarma 2011](#)).

Complement component 5 is the initiator of the effector terminal phase of the complement system. C5 convertase cleaves C5 into C5a, a potent anaphylatoxin, and C5b, ultimately resulting in the formation of the multimeric membrane attack complex (MAC) together with the other components of the terminal pathway (C5b-C9) ([Noris 2013](#)).

Sheep anti human polyclonal antibody gives a single arc when tested by immunoelectrophoresis (IEP) against human plasma. The identity has been confirmed by double diffusion against fresh human plasma and a known anti human C5.

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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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**Guarantee**

Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10087 available at:  
<https://www.bio-rad-antibodies.com/SDS/2222-8354>  
10087

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**Regulatory**

For research purposes only

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## Related Products

## Recommended Secondary Antibodies

Rabbit Anti Sheep IgG (H/L) (5184-2304...) [Biotin](#)

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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://bio-rad-antibodies.com/datasheets)

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