

Datasheet: 0300-0230

Description:	RABBIT ANTI HUMAN C4d
Specificity:	C4d
Other names:	COMPLEMENT COMPONENT 4d
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.25 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.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen	▪			1/20 - 1/80
Immunohistology - Paraffin (1)	▪			1/20 - 1/80
Immunofluorescence	▪			1/20 - 1/80

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.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. TRIS/EDTA buffer pH 8.5 is recommended for this purpose.

Target Species	Human
Product Form	Purified Ig - liquid
Preparation	Purified Ig prepared by affinity chromatography on Protein G.
Buffer Solution	Phosphate buffered saline.
Preservative Stabilisers	0.1% Proclin 950
Immunogen	Synthetic peptide corresponding to amino acids 1241-1256 of C4 conjugated to Keyhole limpet Haemocyanin.

**External Database
Links**

UniProt:

[P0C0L4](#) [Related reagents](#)
[P0C0L5](#) [Related reagents](#)

Entrez Gene:

[720](#) C4A [Related reagents](#)
[721](#) C4B [Related reagents](#)

Synonyms

CO4, CPAMD2, CPAMD3

RRID

AB_620313

Specificity

Rabbit anti Human C4d antibody is specific for human complement split product C4d.

References

1. Regele, H. *et al.* (2001) Endothelial C4d deposition is associated with inferior kidney allograft outcome independently of cellular rejection. [Nephrol Dial Transplant. 16 \(10\): 2058-66.](#)
2. Viana, H. *et al.* (2009) C4d presence in kidney allograft biopsy: sensitivity and specificity of immunoperoxidase vs. immunofluorescence. [N: 10th Banff Conference on Allograft Pathology, 2009, 9 a 14 Ago. Banff, Alberta, Canada](#)
3. Santos, A. *et al.* (2012) C4d detection in renal allograft biopsies: immunohistochemistry vs. immunofluorescence [Port J Nephrol Hypert 26 \(4\): 272-7.](#)
4. Sreedharanunni, S. *et al.* (2014) An analysis of transplant glomerulopathy and thrombotic microangiopathy in kidney transplant biopsies. [Transpl Int. 27 \(8\): 784-92.](#)
5. Sethi, S. *et al.* (2015) C4d as a Diagnostic Tool in Proliferative GN. [J Am Soc Nephrol. 26 \(11\): 2852-9.](#)
6. Mahakur, S. *et al.* (2018) Allo-specific immune response profiles indicative of acute rejection in kidney allografts using an *in vitro* lymphocyte culture-based model. [Clin Exp Nephrol. 22 \(2\): 465-73.](#)
7. Hanaoka, K. *et al.* (2019) Benefits of a loading dose of tacrolimus on graft survival of kidney transplants in nonhuman primates [Transplant Immunology. 52: 32-9.](#)

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.

Guarantee

Guaranteed until date of expiry. Please see product label.

**Health And Safety
Information**

Material Safety Datasheet documentation #20479 available at:
<https://www.bio-rad-antibodies.com/SDS/0300-0230>
20479

Regulatory

For research purposes only.

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

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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

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