Datasheet: 2150-1470

BATCH NUMBER 163731

Description:	RABBIT ANTI MOUSE COLLAGEN IV
Specificity:	COLLAGEN IV
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 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.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen	▪			1/500
Immunohistology - Paraffin	▪			1/500
ELISA	▪			1/2000
Immunoprecipitation			▪	
Western Blotting			▪	
Immunofluorescence	▪			1/40

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 appropriate negative/positive controls.

Target Species

Mouse

Species Cross Reactivity

Reacts with: Orangutan, Rat, Human

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified Ig - liquid

Preparation

Purified IgG prepared by antigen column chromatography

Buffer Solution

Phosphate buffered saline
0.1M citrate

Preservative Stabilisers	<0.1% Sodium Azide (NaN_3) Antibiotic antimycotic mixture 1%
Immunogen	Collagen IV purified from mouse EHS tumor.
External Database Links	**UniProt:** P02463 Related reagents P08122 Related reagents Q9QZS0 Related reagents Q9QZR9 Related reagents Q80V57 Related reagents Q6PFB1 Related reagents **Entrez Gene:** 12826 Col4a1 Related reagents 12827 Col4a2 Related reagents 12828 Col4a3 Related reagents 12829 Col4a4 Related reagents
RRID	AB_2082660
Specificity	**Rabbit anti Mouse Collagen IV antibody** recognizes mouse collagen type IV. Collagen IV is a 1682 amino acid ~160 kDa (predicted) matrx protein and major component of glomerular basement membranes. Multiple isoforms exist each capable of forming triple helical structures with two other chains to form the type IV collagen network. The collagen IV alpha chain can be cleaved between residues 1444-1445 to yield the c-terminal 225 amino acid, ~28 kDa arresten fragment, collagen α2(IV) yields a c-terminal canstatin fragment while Collagen α3(IV) yeilds a tumstatin fragment. Collagen IV bears a single collagen IV NC1 (C-terminal non-collagenous) domain (UniProt: Q9QZR9). Mutations in collagen IV genes have been implicated in inherited nephropathies and potentially in cystic kidney disease and intracranial aneurysms (Plaisier *et al.* 2007). Rabbit amti Mouse Collagen IV antibody has been successfully employed for the detection of collagen IV by immunofluorescence and immunohistochemistry in mice (Tang *et al.* 2010), rats (Shen *et al.* 2014) and oragutan (Bredies *et al.* 2013). The following cross reactivities have been observed: Mouse type IV 100% Mouse types I, II & III <0.1% Human types IV & V <0.1% Mouse fibronectin & laminin <0.1%
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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.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #20470 available at: https://www.bio-rad-antibodies.com/SDS/2150-1470 20470
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (Fc) (STAR121...) Biotin, FITC, HRP
Sheep Anti Rabbit IgG (STAR35...) RPE
Goat Anti Rabbit IgG (H/L) (STAR124...) HRP

Recommended Useful Reagents

ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025A)

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