



Anti-Col4a4 polyclonal antibody (CPBT-68137RM)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Rabbit anti Mouse Collagen IV antibody recognizes mouse collagen type IV. Collagen IV is a 1682 amino acid ~160kDa (predicted) matrix 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, ~28kDa arrestin fragment, collagen $\alpha 2$ (IV) yields a c-terminal canstatin fragment while Collagen $\alpha 3$ (IV) yields 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. Rabbit anti Mouse Collagen IV antibody has been successfully employed for the detection of collagen IV by immunofluorescence and immunohistochemistry in mice, rats and orangutan. 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%

Specificity	COLLAGEN IV
Immunogen	Collagen IV purified from mouse EHS tumor.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Mouse, Orangutan
Conjugate	Unconjugated
Applications	ELISA; IF; IHC-P
Format	Purified Ig - liquid

Size	100 µl
Preservative	0.09% Sodium Azide
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	Col4a4 collagen, type IV, alpha 4 [Mus musculus (house mouse)]
Official Symbol	Col4a4
Synonyms	Col4a4; collagen, type IV, alpha 4; COL4A1; collagen, type IV, alpha 1; Bru; Raw; Svc; Col4a-1; Del(8)44H; collagen alpha-1(IV) chain; Del(8)Bru44H; alpha1(IV) collagen; retinal anterior wiring; procollagen, type IV, alpha 1; collagen alpha-4(IV) chain; c
Entrez Gene ID	12829
Protein Refseq	NP_031761.1
UniProt ID	Q9QZR9
Chromosome Location	1; 1 C5
Pathway	Amoebiasis; Assembly of collagen fibrils and other multimeric structures; Axon guidance; Collagen biosynthesis and modifying enzymes; Collagen formation; Developmental Biology; ECM-receptor interaction; Extracellular matrix organization;
Function	extracellular matrix structural constituent