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Collagen Type IV (ABT165) Mouse mAb

CatalogNo: YM4808

Key Features

Host Species Mouse

MW • 160kD (Calculated) 180kD,50kD,37kD (Observed) Reactivity

Human,Mouse,

IgG2b,Kappa

Isotype

Applications • IHC,WB,IF,ELISA

Recommended Dilution Ratios

IHC 1:200-1000 WB 1:500-2000 IF 1:100-500 ELISA 1:1000-5000

Storage

Storage*-15°C to -25°C/1 year(Do not lower than -25°C)FormulationPBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Basic Information

Clonality	Monoclonal
Clone Number	ABT165

Immunogen Information

ImmunogenSynthesized peptide derived from human Collagen Type IV AA range:1600-1669SpecificityThe antibody can specifically recognize human Collagen Type IV protein, collagen types I,
II, III and V do not respond to the anbody.

Target Information

Gene name	COL4A1				
Protein Name	Collagen Type IV Organism	Gene ID	UniProt ID		
	Human	<u>1282;</u>	<u>P02462;</u>		
Cellular Localization	Cytoplasmic				
Tissue specificity	specificity Highly expressed in placenta.				
Function	Highly expressed in placenta. Disease:Defects in COL4A1 are a cause of brain small vessel disease with hemorrhage [MIM:607595]. Brain small vessel diseases underlie 20 to 30 percent of ischemic stroke and a larger proportion of intracerebral hemorrhages. Inheritance is autosomal dominant.,Disease:Defects in COL4A1 are a cause of porencephaly type 1 [MIM:175786] also known as encephaloclastic porencephaly. Porencephaly is a term used for any cavitation or cerebrospinal fluid-filled cyst in the brain. Porencephaly type 1 is usually unilateral and results from focal destructive lesions such as fetal vascular occlusion or trauma. Inheritance is autosomal dominant.,Disease:Defects in COL4A1 are the cause - hereditary angiopathy with nephropathy, aneurysms, and muscle cramps (HANAC) [MIM:611773]. The clinical renal manifestations include hematuria and bilateral large of Histologic analysis revealed complex basement membrane defects in kidney and skin. systemic angiopathy appears to affect both small vessels and large arteries.,Domain:A chains of type IV collagen have a non-collagenous domain (NC1) at their C-terminus, frequent interruptions of the G-X-Y repeats in the long central triple-helical domain (wh may cause flexibility in the triple helix), and a short N-terminal triple-helical 7S domain.,Function:Type IV collagen is the major structural component of glomerular basement membranes (GBM), forming a 'chicken-wire' meshwork together with laminir proteoglycans and the alpha and beta integrins of endothelial cells.,PTM:Lysines at the position of the tripeptide repeating unit (G-X-Y) are hydroxylated in all cases and bind carbohydrates.,PTM:Prolines at the third position of the tripeptide repeating unit (G-X-Y) hydroxylated in some or all of the chains.,PTM:The trimeric structure of the NC1 domai may be stabilized by covalent bonds between Lys and Met residues.,PTM:Lysines at the position of the tripeptide repeating unit (G-X-Y) are hydroxylated in all cases and bind carbohydrates.,PTM:Prolines at the thi		 30 percent of ischemic strokes heritance is autosomal encephaly type 1 [MIM:175780]; haly is a term used for any orencephaly type 1 is usually as fetal vascular occlusion or birth ects in COL4A1 are the cause of d muscle cramps (HANAC) hematuria and bilateral large cysts. ne defects in kidney and skin. The s and large arteries.,Domain:Alpha in (NC1) at their C-terminus, entral triple-helical domain (which rminal triple-helical 7S I component of glomerular heshwork together with laminins, dothelial cell proliferation and anisms involving cell surface helial cells.,PTM:Lysines at the third oxylated in all cases and bind ripeptide repeating unit (G-X-Y) are ric structure of the NC1 domains et residues.,PTM:Type IV collagens n inter- and intramolecular disulfide heserved in all known type IV ly.,similarity:Contains 1 collagen IV e are six type IV collagen isoforms, elix structure with 2 other chains to 		

Validation Data



Hela whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-ype IV(ABT165) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: Hela



Human placenta tissue was stained with Anti-Collagen Type IV (ABT165) Antibody

Contact information

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Please scan the QR code to access additional product information: **Collagen Type IV** (ABT165) Mouse mAb

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Antibody | ELISA Kits | Protein | Reagents