



Datasheet for ABIN891716

anti-Collagen IV antibody (AA 1571-1669) (Alexa Fluor 488)



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1 Publication

Overview

Quantity:	100 µL
Target:	Collagen IV (COL4)
Binding Specificity:	AA 1571-1669
Reactivity:	Human, Mouse, Rat, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Collagen IV antibody is conjugated to Alexa Fluor 488
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Collagen alpha-1(IV) chain
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Pig, Rat
Predicted Reactivity:	Dog,Cow,Horse,Chicken,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	Collagen IV (COL4)
Alternative Name:	Collagen 4 (COL4 Products)

Target Details

Background: Synonyms: ICH, HANAC, POREN1, arresten, Collagen alpha-1(IV) chain, COL4A1

Background: Type IV collagen is the major structural component of glomerular basement membranes (GBM), forming a 'chicken-wire' meshwork together with laminins, proteoglycans and entactin/nidogen. Arresten, comprising the C-terminal NC1 domain, inhibits angiogenesis and tumor formation. The C-terminal half is found to possess the anti-angiogenic activity. Specifically inhibits endothelial cell proliferation, migration and tube formation. Inhibits expression of hypoxia-inducible factor 1alpha and ERK1/2 and p38 MAPK activation. Ligand for alpha1/beta1 integrin.

Gene ID: 1282

UniProt: [P02462](#)

Application Details

Application Notes: FCM 1:20-100
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months

Publications

Product cited in: Belair, Wolf, Wood, Ren, Grindstaff, Padgett, Swank, MacMillan, Fisher, Winnik, Abbott: "Engineering human cell spheroids to model embryonic tissue fusion in vitro." in: **PLoS ONE**, Vol. 12, Issue 9, pp. e0184155, (2017) ([PubMed](#)).