

Collagen alpha-2(IV) chain Polyclonal Conjugated Antibody

Catalog No: #C42553

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Package Size: #C42553-AF350 100ul #C42553-AF405 100ul #C42553-AF488 100ul

#C42553-AF555 100ul #C42553-AF594 100ul #C42553-AF647 100ul

#C42553-AF680 100ul #C42553-AF750 100ul #C42553-Biotin 100ul

Description

| | |
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| Product Name | Collagen alpha-2(IV) chain Polyclonal Conjugated Antibody |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Species Reactivity | Hu |
| Specificity | The antibody detects endogenous level of total Collagen alpha-2(IV) chain polyclonal antibody. |
| Immunogen Description | Recombinant human Alkaline phosphatase, tissue-nonspecific isozyme |
| Conjugates | Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750 |
| Other Names | COL4A2 |
| Accession No. | Swiss-Prot#:P08572 |
| Uniprot | P08572 |
| GeneID | 1284; |
| Excitation Emission | AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm |
| Formulation | 0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide |
| Storage | Store at 4°C in dark for 6 months |

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

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. Ref.13 Ref.17 Ref.18 Canstatin, a cleavage product corresponding to the collagen alpha 2(IV) NC1 domain, possesses both anti-angiogenic and anti-tumor cell activity. It inhibits proliferation and migration of endothelial cells, reduces mitochondrial membrane potential, and induces apoptosis. Specifically induces Fas-dependent apoptosis and activates procaspase-8 and -9 activity. Ligand for alphavbeta3 and alphavbeta5 integrins.

Note: This product is for in vitro research use only