

## Anti-Vinculin/VCL Antibody Picoband® Fluoro488 Conjugated

Catalog Number: A01207-1-Fluoro488

### About VCL

In mammalian cells, vinculin is a membrane-cytoskeletal protein in focal adhesion plaques that is involved in linkage of integrin adhesion molecules to the actin cytoskeleton. It is mapped to 10q22.2. Vinculin is a cytoskeletal protein associated with cell-cell and cell-matrix junctions, where it is thought to function as one of several interacting proteins involved in anchoring F-actin to the membrane. Defects in VCL are the cause of cardiomyopathy dilated type 1W. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Multiple alternatively spliced transcript variants have been found for this gene, but the biological validity of some variants has not been determined.

### Overview

|                      |  |
|----------------------|--|
| Product Name         | Anti-Vinculin/VCL Antibody Picoband® Fluoro488 Conjugated  |
| Reactive Species     | Human, Monkey, Mouse, Rat  |
| Application          | Recommended applications are based on the parent unconjugated antibody (ELISA, Flow Cytometry, IF, IHC, WB). Customers may select suitable applications according to their experimental needs. |
| Clonality            | Polyclonal   |
| Formulation          | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .   |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.   |
| Host                 | Rabbit   |
| Uniprot ID           | P18206   |

### Technical Details

|                  |   |
|------------------|---|
| Immunogen        | E.coli-derived human Vinculin/VCL recombinant protein (Position: M1-E149).    |
| Cross Reactivity | No cross-reactivity with other proteins.                                      |
| Isotype          | Rabbit IgG  |
| Form             | Liquid  |
| Concentration    | 0.5 mg/mL   |
| Purification     | Immunogen affinity purified.  |
| Conjugate        | Fluoro488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm |

Suggested Dilutions

Optimal dilutions should be determined by end users.

### 3 Publications Citing This Product

1. PubMed ID: 10.1016/j.cbi.2016.03.013, Toxicity analysis of various Pluronic F-68-coated carbon nanotubes on mesenchymal stem cells
2. PubMed ID: 10.1007/s12010-015-1862-1, Monitoring of TGF-beta 1-Induced Human Lung Adenocarcinoma A549 Cells Epithelial-Mesenchymal Transformation Process by Measuring Cell Adhesion Force with a Microfluidic Device
3. PubMed ID: 32247806, Dong Y,Chen Y,Zhu D,Shi K,Ma C,Zhang W,Rocchi P,Jiang L,Liu X.Self-assembly of amphiphilic phospholipid peptide dendrimer-based nanovectors for effective delivery of siRNA therapeutics in prostate cancer therapy.J Control Release.2020 Jun 10;322:416-425.d

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