



## Vinculin Monoclonal Antibody (VLN01)

Catalog Number MA5-11690

Product Data Sheet

| Details            |                            | Species Reactivity                        |                                 |
|--------------------|----------------------------|---|---------------------------------|
| Size               | 500µL                      | Tested species reactivity                 | Human, Mouse, Non-human primate |
| Host / Isotype     | Mouse / IgG                | Published Species Reactivity              | Feline, Human, Not Applicable   |
| Class              | Monoclonal                 | Tested Applications                       | Dilution *                      |
| Type               | Antibody                   | Flow Cytometry (Flow)                     | 3-5 µg/10 <sup>6</sup> cells    |
| Clone              | VLN01                      | Immunocytochemistry (ICC)                 | 2 µg/ml                         |
| Immunogen          | Semi-purified vinculin     | Immunofluorescence (IF)                   | 2 µg/mL                         |
| Conjugate          | Unconjugated               | Immunohistochemistry (Paraffin) (IHC (P)) | 1:50                            |
| Form               | Liquid                     | Immunoprecipitation (IP)                  | 2 µg/ml                         |
| Concentration      | 0.2mg/ml                   | Western Blot (WB)                         | 1-3 µg/mL                       |
| Purification       | Protein G                  | Published Applications                    |                                 |
| Storage Buffer     | PBS, pH 7.4, with 0.2% BSA | Western Blot (WB)                         | See 2 publications below        |
| Contains           | 0.09% sodium azide         | Immunocytochemistry (ICC)                 | See 1 publications below        |
| Storage Conditions | 4° C                       | Immunohistochemistry (IHC)                | See 1 publications below        |

\* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

### Product Specific Information

MA5-11690 targets Vinculin in IF, IHC (P), IP, and WB applications and shows reactivity with Human samples.

The MA5-11690 immunogen is semi-purified vinculin.

### Background/Target Information

Vinculin is an attachment protein involved in the indirect binding of intracellular actin filaments to extracellular fibronectin. Vinculin binds to actin capping protein and alpha actinin, which in turn binds to actin. The binding of fibronectin is also indirect where vinculin binds to talin, which in turn binds to the intracellular domain of the fibronectin receptor which itself is the ligand for fibronectin. Vinculin is widely distributed in tissue and is expressed where smooth muscle actin and fibroblasts attach to the extracellular matrix.

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