

**ARG62380**  
**anti-Calponin 1 antibody [CALP]**Package: 100 µl  
Store at: -20°C

### Summary

|                     |                                                                                 |
|---------------------|---------------------------------------------------------------------------------|
| Product Description | Mouse Monoclonal antibody [CALP] recognizes Calponin 1                          |
| Tested Reactivity   | Hu, Rat                                                                         |
| Tested Application  | FACS, ICC/IF, IHC-Fr, IHC-P                                                     |
| Host                | Mouse                                                                           |
| Clonality           | Monoclonal                                                                      |
| Clone               | CALP                                                                            |
| Isotype             | IgG1                                                                            |
| Target Name         | Calponin 1                                                                      |
| Species             | Human                                                                           |
| Immunogen           | Crude human uterus extract                                                      |
| Conjugation         | Un-conjugated                                                                   |
| Alternate Names     | Calponin H1, smooth muscle; Sm-Calp; HEL-S-14; SMCC; Calponin-1; Basic calponin |

### Application Instructions

|                  |                                                                                                                                            |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |
| Positive Control | Myoepithelium in normal breast glands.                                                                                                     |

### Properties

|                     |                                                                                                                                                                                                                                                                                                                            |
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| Form                | Liquid                                                                                                                                                                                                                                                                                                                     |
| Purification        | Protein G purified                                                                                                                                                                                                                                                                                                         |
| Buffer              | 10mM PBS (pH 7.4), 0.2% BSA and 0.09% Sodium azide                                                                                                                                                                                                                                                                         |
| Preservative        | 0.09% Sodium azide                                                                                                                                                                                                                                                                                                         |
| Stabilizer          | 0.2% BSA                                                                                                                                                                                                                                                                                                                   |
| Concentration       | 0.2 mg/ml                                                                                                                                                                                                                                                                                                                  |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note                | For laboratory research only, not for drug, diagnostic or other use.                                                                                                                                                                                                                                                       |

### Bioinformation

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Database links | <a href="#">GeneID: 1264 Human</a><br><a href="#">GeneID: 65204 Rat</a><br><a href="#">Swiss-port # P51911 Human</a><br><a href="#">Swiss-port # Q08290 Rat</a>                                                                                                                                                                                                                                                                                                                                                                         |
| Gene Symbol    | CNN1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Gene Full Name | calponin 1, basic, smooth muscle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Background     | Calponin regulates smooth muscle cell contraction and is a marker of smooth muscle cell differentiation. Calponin, an Actin- and Tropomyosin-binding protein, is characterized as an inhibitory factor of smooth-muscle actomyosin activity. Two isoforms of calponin exist whose molecular weights are 34kDa and 29kDa. Expression of the 29kDa form is primarily restricted to muscle of the urogenital tract. The expression of calponin has also been demonstrated in myoepithelial cells from benign and malignant breast lesions. |
| Function       | Thin filament-associated protein that is implicated in the regulation and modulation of smooth muscle contraction. It is capable of binding to actin, calmodulin, troponin C and tropomyosin. The interaction of calponin with actin inhibits the actomyosin Mg-ATPase activity (By similarity). [UniProt]                                                                                                                                                                                                                              |
| Research Area  | Cell Biology and Cellular Response antibody; Controls and Markers antibody; Developmental Biology antibody; Signaling Transduction antibody                                                                                                                                                                                                                                                                                                                                                                                             |
| Calculated Mw  | 33 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |