

Calponin-1 Rabbit Monoclonal Antibody

Catalog #: EAB21428

| Host/Isotype | Clonality | Applications | MW (kDa) | Reactivity |
|--------------|------------|-------------------|----------|-----------------------------|
| Rabbit IgG | Monoclonal | WB, IHC-P, IF/ICC | 33 | Human, Mouse, Rat, Dog, Pig |

Applications Dilutions

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| | |
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| WB (Western Blotting) | 1:500-2000 |
| IHC-P (Immunohistochemistry-Paraffin) | 1:50-200 |
| IF/ICC (Immunofluorescence/Immunocytochemistry) | 1:50-200 |

Product Information

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|-----------------------|--|
| Conjugate | Unconjugate |
| Specificity | Calponin-1 Rabbit Monoclonal Antibody detects endogenous levels of Calponin-1 protein. |
| Purification | Affinity purification |
| Concentration | 1mg/ml |
| Format | Liquid |
| Formulation | In PBS, pH 7.4, Containing 0.02% sodium azide, 0.5% BSA and 50% Glycerol |
| Shipping | Gel Pack |
| Storage | Store at -20°C least 1 year from the date of shipment. Avoid repeated freeze/thaw cycles. Aliquots may be stored at +4°C for 1-2 weeks |
| UniProt ID | P51911 |
| Entrez-Gene Id | 1264 |

Product Description

Calponin, a thin filament associated protein is implicated in the regulation and modulation of smooth muscle contraction. It is capable of binding to actin, calmodulin, troponin C and tropomyosin. Calponin is expressed in smooth muscle and tissues containing significant amounts of smooth muscle. 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. It stains smooth muscle, myoepithelial cells, myofibroblasts, keratinocytes and nerve fibers. It identifies myoepithelial cells in breast lesions, and helps differentiate breast collagenous spherulosis (positive) from adenoid cystic carcinoma. Adenoid cystic carcinoma in salivary gland tumors is calponin positive.

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