

Datasheet: AHP1730

**BATCH NUMBER 151214**

|                      |   |
|----------------------|---|
| <b>Description:</b>  | RABBIT ANTI HUMAN MYOSIN REGULATORY LIGHT CHAIN |
| <b>Specificity:</b>  | MYOSIN (REGULATORY LIGHT CHAIN)                 |
| <b>Other names:</b>  | LC20  |
| <b>Format:</b>       | Purified  |
| <b>Product Type:</b> | Polyclonal Antibody                             |
| <b>Isotype:</b>      | Polyclonal IgG                                  |
| <b>Quantity:</b>     | 50 µg   |

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

|                                | Yes | No | Not Determined | Suggested Dilution |
|--------------------------------|-----|----|----------------|--------------------|
| Flow Cytometry                 |     |    | ▪              |                    |
| Immunohistology - Frozen       |     |    | ▪              |                    |
| Immunohistology - Paraffin (1) | ▪   |    |                | 2.5ug/ml           |
| ELISA                          | ▪   |    |                | 1/5000 - 1/20000   |
| Immunoprecipitation            |     |    | ▪              |                    |
| Western Blotting               | ▪   |    |                | 1/500 - 1/2000     |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

**(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse, Rat

Based on sequence similarity, is expected to react with: Birds, Mammals

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

|  |   |
|--|---|
| <b>Product Form</b>                      | Purified IgG - liquid   |
| <b>Antiserum Preparation</b>             | Antisera to Human Myosin Regulatory Light Chain were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG prepared from whole serum by affinity chromatography.  |
| <b>Buffer Solution</b>                   | Phosphate buffered saline   |
| <b>Preservative Stabilisers</b>          | 0.09% Sodium Azide (NaN <sub>3</sub> )  |
| <b>Approx. Protein Concentrations</b>    | IgG concentration 0.5 mg/ml   |
| <b>Immunogen</b>                         | A synthetic peptide corresponding to amino acids 12-27 of human Myosin Regulatory Light Chain.  |
| <b>External Database Links</b>           | <p><b>UniProt:</b><br/> <a href="#">P24844</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">10398</a>    MYL9    <a href="#">Related reagents</a></p>  |
| <b>Synonyms</b>                          | MLC2, MRLC1, MYRL2  |
| <b>RRID</b>                              | AB_2148344  |
| <b>Specificity</b>                       | <p><b>Rabbit anti Human myosin regulatory light chain antibody</b> recognizes human myosin regulatory light chain (MRLC), also known as MYL9 and LC20.</p> <p>Myosin is a hexamer composed of two high molecular weight heavy chains and four light chain subunits, which include two alkali light chains and two MRLCs. MRLC functions to stabilize the myosin heavy chain, and may also modulate the availability of cross bridges to bind to actin. Phosphorylation of the MRLC by myosin light chain kinase (MLCK) is necessary for smooth muscle contraction via activating myosin ATPase.</p> |
| <b>Histology Positive Control Tissue</b> | Smooth muscle   |
| <b>Storage</b>                           | <p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>  |
| <b>Guarantee</b>                         | 12 months from date of despatch   |
| <b>Health And Safety</b>                 | Material Safety Datasheet documentation #10040 available at:  |

**Information** <https://www.bio-rad-antibodies.com/SDS/AHP1730>  
10040

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**Regulatory** For research purposes only

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## Related Products

### Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

**North & South** Tel: +1 800 265 7376

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
'M364010:200529'

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