

Datasheet for ABIN5611170  
**anti-IGHM antibody (AA 310-452)**



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6 Images

## Overview

|                      |   |
|----------------------|---|
| Quantity:            | 100 µL  |
| Target:              | IGHM  |
| Binding Specificity: | AA 310-452  |
| Reactivity:          | Human   |
| Host:                | Mouse   |
| Clonality:           | Monoclonal  |
| Conjugate:           | This IGHM antibody is un-conjugated   |
| Application:         | Immunohistochemistry (IHC), Western Blotting (WB), Flow Cytometry (FACS), ELISA |

## Product Details

|               |   |
|---------------|---|
| Purpose:      | IGHM Antibody   |
| Immunogen:    | Purified recombinant fragment of human IGHM (AA: 310-452) expressed in E. Coli. |
| Clone:        | 8B9D3   |
| Isotype:      | IgG1  |
| Purification: | Purified antibody   |

## Target Details

|                   |   |
|-------------------|---|
| Target:           | IGHM  |
| Alternative Name: | IGHM ( <a href="#">IGHM Products</a> )  |
| Background:       | Description: Immunoglobulins (Ig) are the antigen recognition molecules of B cells. An Ig |

## Target Details

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molecule is made up of 2 identical heavy chains and 2 identical light chains (see MIM 147200) joined by disulfide bonds so that each heavy chain is linked to a light chain and the 2 heavy chains are linked together. Each Ig heavy chain has an N-terminal variable (V) region containing the antigen-binding site and a C-terminal constant (C) region, encoded by an individual C region gene, that determines the isotype of the antibody and provides effector or signaling functions. The heavy chain V region is encoded by 1 each of 3 types of genes: V genes (see MIM 147070), joining (J) genes (see MIM 147010), and diversity (D) genes (see MIM 146910). The C region genes are clustered downstream of the V region genes within the heavy chain locus on chromosome 14. The IGHM gene encodes the C region of the mu heavy chain, which defines the IgM isotype. Naive B cells express the transmembrane forms of IgM and IgD (see IGHD, MIM 1471770) on their surface. During an antibody response, activated B cells can switch to the expression of individual downstream heavy chain C region genes by a process of somatic recombination known as isotype switching. In addition, secreted Ig forms that act as antibodies can be produced by alternative RNA processing of the heavy chain C region sequences. Although the membrane forms of all Ig isotypes are monomeric, secreted IgM forms pentamers, and occasionally hexamers, in plasma (summary by Janeway et al., 2005).  
Aliases: MU, VH, AGM1

|                   |                        |
|-------------------|------------------------|
| Molecular Weight: | 49.3kDa                |
| Gene ID:          | 3507                   |
| HGNC:             | 3507                   |
| UniProt:          | <a href="#">P01871</a> |

## Application Details

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|                    |                                      |
|--------------------|--------------------------------------|
| Application Notes: | ELISA: 1/10000<br>FCM: 1/200 - 1/400 |
| Restrictions:      | For Research Use only                |

## Handling

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|                    |   |
|--------------------|---|
| Format:            | Liquid  |
| Buffer:            | Purified antibody in PBS with 0.05 % sodium azide.                            |
| Preservative:      | Sodium azide  |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which |

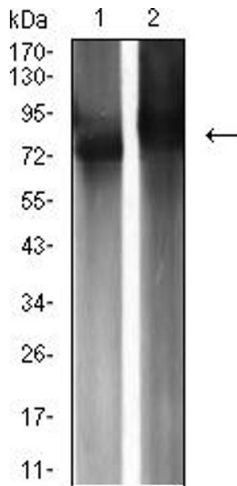
## Handling

should be handled by trained staff only.

Storage: 4 °C,-20 °C

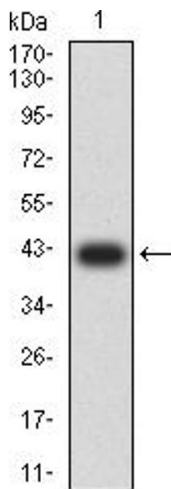
Storage Comment: Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Images



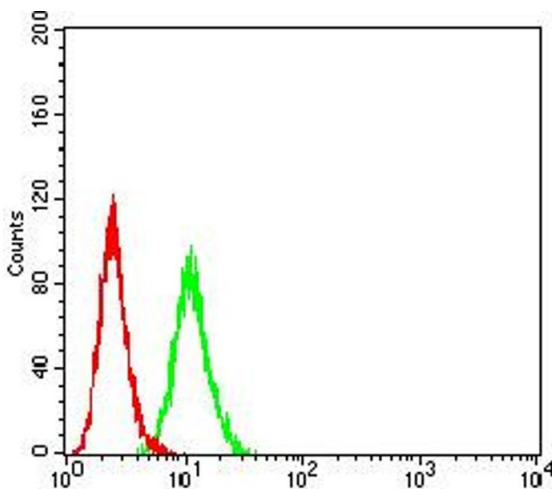
### Western Blotting

**Image 1.** Western blot analysis using IGHM mouse mAb against Raji (1) and Ramos (2) cell lysate.



### Western Blotting

**Image 2.** Western blot analysis using IGHM mAb against human IGHM (AA: 310-452) recombinant protein. (Expected MW is 41.3 kDa)



### Flow Cytometry

**Image 3.** Flow cytometric analysis of HeLa cells using IGHM mouse mAb (green) and negative control (red).

## Images

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Please check the [product details page](#) for more images. Overall 6 images are available for ABIN5611170.