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

6	Images

Overview

Quantity:	0.1 mg
Target:	IGHM
Binding Specificity:	AA 310-452
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Immunohistochemistry (IHC), Western Blotting (WB), Flow Cytometry (FACS), ELISA, Immunocytochemistry (ICC), Neutralization (Neut)

Product Details

Immunogen:	Purified recombinant fragment of human IGHM (AA: 310-452) expressed in E. coli.
Clone:	8B9D3
Isotype:	IgG1
Purification:	purified

Target Details

Target:	IGHM
Alternative Name:	IGHM (IGHM Products)
Background:	Description: Immunoglobulins (Ig) are the antigen recognition molecules of B cells. An Ig 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

Target Details

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:	49.3 kDa
Gene ID:	3507
HGNC:	3507

Application Details

Application Notes:	ELISA: 1:10000, WB: 1:200 - 1:500, ICC: N/A, FCM: 1:200 - 1:400, IHC: 1:200 - 1:1000
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 should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage
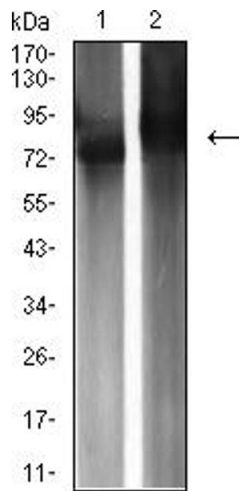
Images

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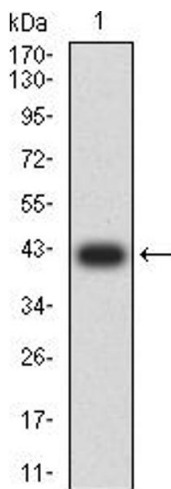
Western Blotting

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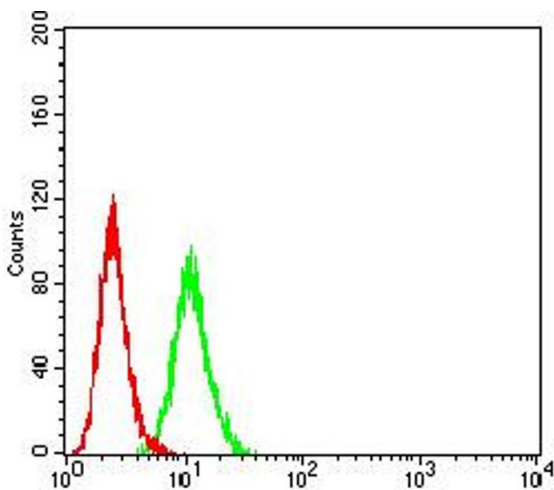
Flow Cytometry

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

Please check the product details page for more images. Overall 6 images are available for ABIN5611170.