

# Mouse Anti-Human IgM Antibody

Catalog No: tcna169



## Available Sizes

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**Size:** 20ug

**Size:** 100ug



## Specifications

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**Application:**

WB, FACS, IHC-P, IF

**Species Reactivity:**

Human. Other species not known.

**Host Species:**

Mouse

**Immunogen / Amino acids:**

Recombinant human IgM was used as the immunogen for this anti-IgM antibody.

**Conjugation:**

Unconjugated

**Clonality:**

Monoclonal

**Clones:**

IM260

**Isotype:**

Mouse IgG1, kappa

**Form:**

Liquid

**Storage Buffer:**

0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide

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**Concentration:**

0.2 mg/ml

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**Recommended Dilution:**

FACS: 0.5-1ug/10e6 cells

IF: 0.5-1ug/ml

WB: 0.5-1ug/ml

IHC (FFPE): 0.5-1ug/ml for 30 minutes at RT (1)

Prediluted format : incubate for 30 min at RT (2) Due to differences in protocols and secondaries the anti-IgM antibody may need to be titered for optimal performance.

1. FFPE staining requires boiling sections in 10mM citrate buffer

pH 6.0

for 10-20 min followed by cooling at RT for 20 minutes.

2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required)

drip mAb solution onto the tissue section and incubate at RT for 30 min.

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**Amino Acid Sequence:**

3507 (Human)

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**Storage Instruction:**

Store the anti-IgM antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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**SwissProt:**

P01871 & P20769

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**Reference Sequence No.:**

3507 (Human)

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**References**

Protein G

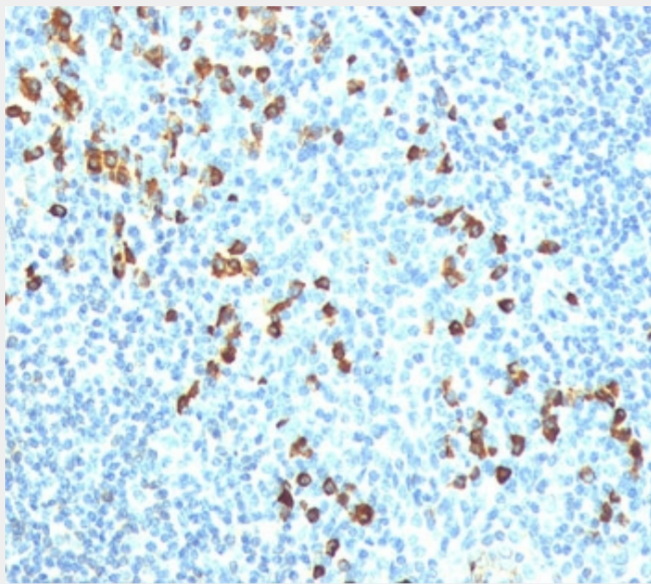
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**Product Description**

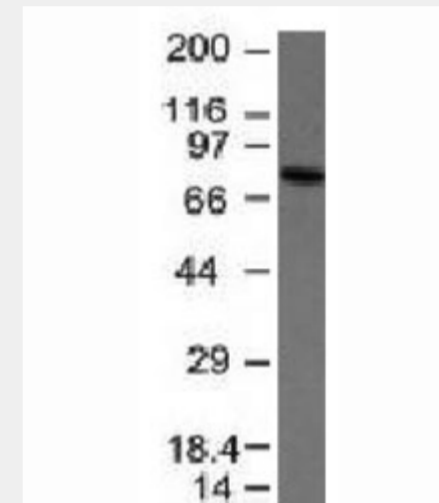
IgM is the first antibody generated in an immune response to an antigen. It is generally a pentamer with each of the five immunoglobulins linked together with disulfide bonds. In its pentamer form, it has a molecular mass of 970 kDa and 10 antigen binding sites (due to the large size of most antigens, not all binding sites can be filled simultaneously). IgM antibodies account for approximately 5%-10% of all the antibody in the body.

This mAb is specific for the human IgM heavy chain. It does not cross-react with other immunoglobulin heavy chains, T-cells,

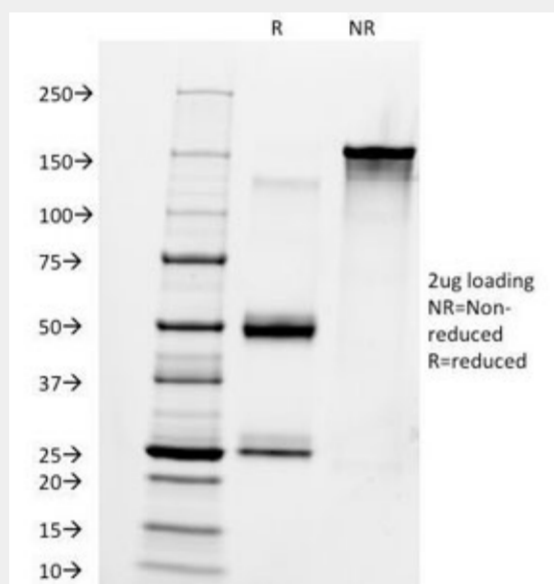
monocytes, granulocytes, or erythrocytes. IgM antibody is useful in the identification of certain cancer types. Some tumors express a single heavy chain class. Demonstration of clonality in lymphoid infiltrates indicates that the infiltrate is clonal and therefore malignant.



IHC testing of human tonsil stained with anti-IgM antibody (IM260).



Western blot analysis of anti-IgM antibody and Raji cell lysate.



SDS-PAGE Analysis of Purified, BSA-Free Anti-IgM Antibody (clone IM260).  
Confirmation of Integrity and Purity of the Antibody.

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!