

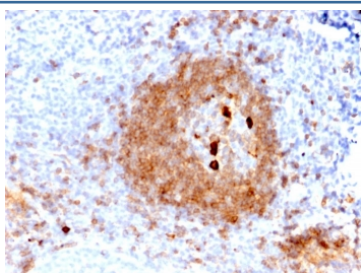
## Recombinant IgM Heavy Chain Antibody [clone rIGHM/2558] (V7868)

| Catalog No.    | Formulation                                                                | Size   |
|----------------|----------------------------------------------------------------------------|--------|
| V7868-100UG    | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V7868-20UG     | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug  |
| V7868SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free                             | 100 ug |

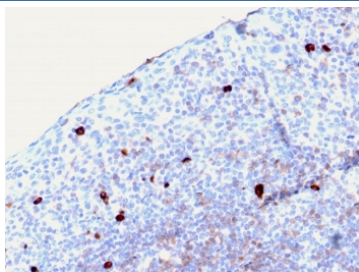
Recombinant **MOUSE MONOCLONAL**

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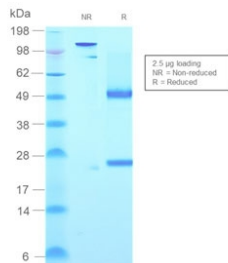
|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Availability       | 1-3 business days                                                                                                                |
| Species Reactivity | Human                                                                                                                            |
| Format             | Purified                                                                                                                         |
| Clonality          | Recombinant Mouse Monoclonal                                                                                                     |
| Isotype            | Mouse IgG1, kappa                                                                                                                |
| Clone Name         | rIGHM/2558                                                                                                                       |
| Purity             | Protein G affinity chromatography                                                                                                |
| UniProt            | P01871                                                                                                                           |
| Applications       | Flow Cytometry : 1-2ug/10 <sup>6</sup> cells in 0.1ml<br>Immunofluorescence : 1-2ug/ml<br>Immunohistochemistry (FFPE) : 1-2ug/ml |
| Limitations        | This recombinant IgM Heavy Chain antibody is available for research use only.                                                    |



IHC staining of FFPE human tonsil with recombinant IgM Heavy Chain antibody (clone rIGHM/2558). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



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SDS-PAGE analysis of purified, BSA-free recombinant IgM Heavy Chain antibody (clone rIGHM/2558) as confirmation of integrity and purity.

## Description

Recognizes a protein of 75kDa, identified as mu heavy chain of human immunoglobulins. It does not cross-react with alpha (IgA), gamma (IgG), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes. Monomeric IgM is expressed as a membrane bound antibody on the surface of B cells and as a pentamer when secreted by plasma cells. IgM antibody is prominent in early immune responses to most antigens. Aberrant levels are associated with immune deficiency states, hereditary deficiencies, myeloma, Waldenstrom's macroglobulinemia, chronic infection and hepatocellular disease. This MAb is useful in the identification of leukemias, plasmacytomas, and certain non-Hodgkin's lymphomas. The most common feature of these malignancies is the restricted expression of a single heavy chain class. Demonstration of clonality in lymphoid infiltrates indicates that the infiltrate is clonal and therefore malignant.

## Application Notes

Optimal dilution of the recombinant IgM Heavy Chain antibody should be determined by the researcher.

## Immunogen

Heavy chain of human IgM was used as the immunogen for the recombinant IgM Heavy Chain antibody.

## Storage

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