

# IgG4 Rabbit mAb

Catalog No: #48893



Package Size: #48893-1 50ul #48893-2 100ul

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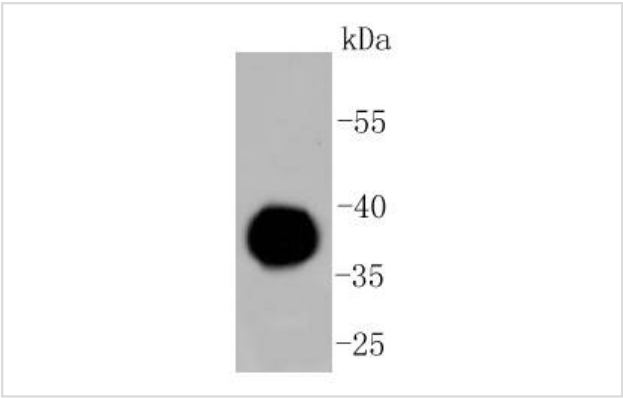
## Description

|                       |                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | IgG4 Rabbit mAb                                                                                                                  |
| Host Species          | Recombinant Rabbit                                                                                                               |
| Clonality             | Monoclonal antibody                                                                                                              |
| Clone No.             | ST05-12                                                                                                                          |
| Purification          | ProA affinity purified                                                                                                           |
| Applications          | WB, IHC                                                                                                                          |
| Species Reactivity    | Hu                                                                                                                               |
| Immunogen Description | recombinant protein                                                                                                              |
| Other Names           | Ig gamma 4 chain C region antibody IGHG4 antibody Immunoglobulin heavy constant gamma 4 (G4m marker) antibody MGC117419 antibody |
| Accession No.         | Swiss-Prot#:P01861                                                                                                               |
| Calculated MW         | 36 kDa                                                                                                                           |
| Formulation           | 1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.                                                             |
| Storage               | Store at -20°C                                                                                                                   |

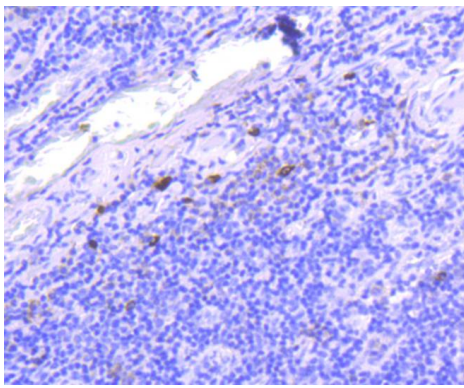
## Application Details

WB: 1:1,000-5,000IHC: 1:50-1:200

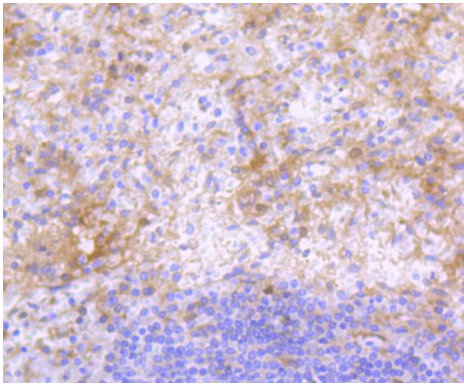
## Images



Western blot analysis of IgG4 on human plasma lysates using anti-IgG4 antibody at 1/1,000 dilution.



Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-IgG4 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-IgG4 antibody. Counter stained with hematoxylin.

## Background

The regions of relatively constant sequence beyond the variable regions of immunoglobulins are termed constant regions (C regions) and are present in both the heavy and light chains. With very few exceptions, the sites of attachment for carbohydrates on immunoglobulins are located in these C regions. These regions also function to hold the variable regions together by using the disulfide bond between them. The C regions facilitate interaction with the antigen by increasing the maximum rotation of the immunoglobulin arms. Several studies have shown that a large population of patients with recurrent respiratory tract infection have low IgG4 concentrations.

## References

1. Ma JM et al. Clinical research on benign lymphoepithelial lesions of lacrimal gland in 20 Chinese patients. Chin Med J (Engl) 128:493-8 (2015).
2. Zhang R et al. Clinicopathological analysis of 12 patients with autoimmune pancreatitis. Exp Ther Med 10:121-126 (2015).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.