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Datasheet for ABIN6939719

Recombinant anti-IGHG4 antibody

2 Images

Overview

| | |
|----------------|--|
| Quantity: | 100 µg |
| Target: | IGHG4 |
| Reactivity: | Human |
| Host: | Mouse |
| Antibody Type: | Recombinant Antibody |
| Clonality: | Monoclonal |
| Conjugate: | This IGHG4 antibody is un-conjugated |
| Application: | Immunohistochemistry (IHC), Immunostaining (Ist), Staining Methods (StM) |

Product Details

| | |
|---------------|----------------------------------|
| Immunogen: | Recombinant human IGHG4 fragment |
| Clone: | RIGHG4-1345 |
| Isotype: | IgG1 kappa |
| Purification: | Purified by Protein A/G |

Target Details

| | |
|-------------------|--|
| Target: | IGHG4 |
| Alternative Name: | IGHG4 (IGHG4 Products) |
| 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. |

Target Details

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. Reportedly, a large population of patients with recurrent respiratory tract infection has low IgG4 concentrations. IgG4-related sclerosing disease has been recognized as a systemic disease entity characterized by an elevated serum IgG4 level, sclerosing fibrosis, and diffuse lymphoplasmacytic infiltration with the presence of many IgG4-positive plasma cells. IgG4 is overexpressed in inflammatory pseudotumor (IPT) and under expressed in inflammatory myofibroblastic tumor (IMT). In pulmonary nodular lymphoid hyperplasia (PNLH), there are an increased number of IgG4+ plasma cells.

Molecular Weight: 150kDa

Gene ID: 3503

UniProt: [P01861](#)

Application Details

Application Notes: Positive Control: Tonsil.
Known Application: Immunohistochemistry (Formalin-fixed) (0.5-1.0 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0 for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

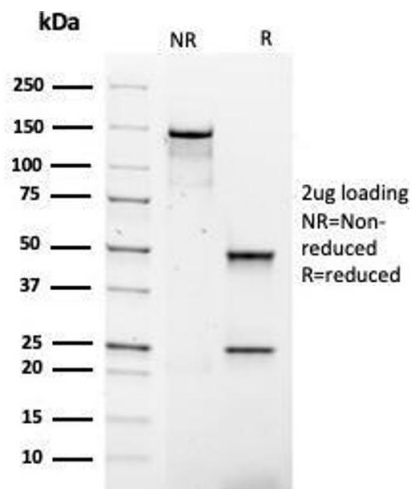
Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

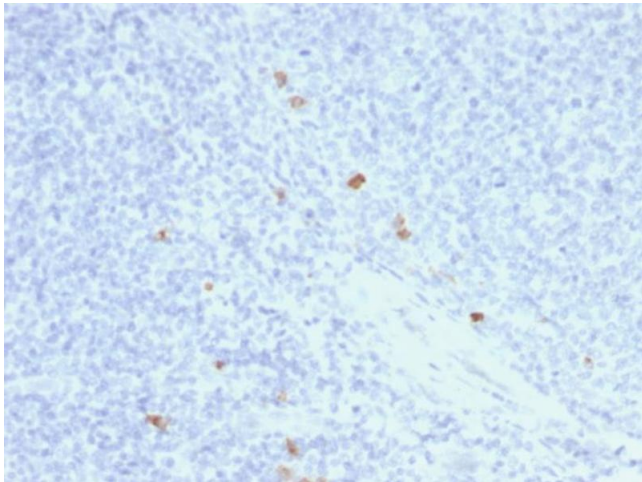
Storage: 4 °C, -80 °C

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.



SDS-PAGE

Image 1. SDS-PAGE Analysis Purified IgG4 Mouse Recombinant Monoclonal Antibody (rIGHG4/1345). Confirmation of Purity and Integrity of Antibody.



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human Tonsil stained with IgG4 Mouse Recombinant Monoclonal Antibody (rIGHG4/1345).