

12-1196: Anti-IgG4 (Ig Heavy Constant Gamma 4) (G4m Marker) Recombinant Mouse Monoclonal Antibody (Clone:rIGHG4/1345)

Clonality :	Monoclonal
Clone Name :	rIGHG4/1345
Application :	IHC
Reactivity :	Human
Gene :	IGHG4
Gene ID :	3503
Uniprot ID :	P01861
Format :	Purified
Alternative Name :	Ig gamma 4 chain C region; IGHG4; Immunoglobulin heavy constant gamma 4 (G4m marker)
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Recombinant full-length human IGHG4 fragment

Description

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. 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.

Product Info

Amount :	20 µg / 100 µg
Purification :	Protein A/G
Content :	200µg/ml of recombinant MAb purified by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	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.

Application Note

Immunohistochemistry (Formalin-fixed) (1-2µg/ml for 30 minutes at RT)(Staining of formalin-fixed tissues is enhanced by heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0 for 45 min at 95°C followed by cooling at RT for 20 minutes)

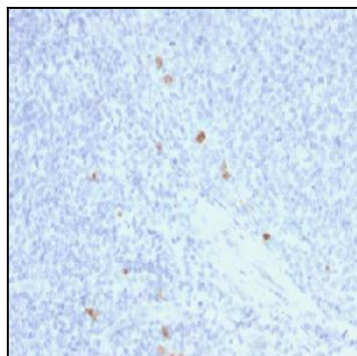


Figure 1: Formalin-fixed, paraffin-embedded Human Tonsil stained with IgG4 Mouse Recombinant Monoclonal Antibody (rIGHG4/1345).

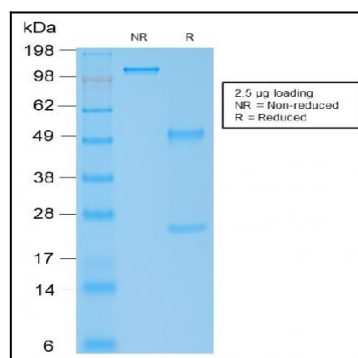


Figure 2: SDS-PAGE Analysis Purified IgG4 Mouse Recombinant Monoclonal Antibody (rIGHG4/1345).