ZETA Corporation *IVD Data Sheet (Rev 122017)*

IgG4 (Clone ZM56)

Mouse Monoclonal Antibody

Specificity: Human. Others-not known

Immunogen: Recombinant human IGHG4 fragment

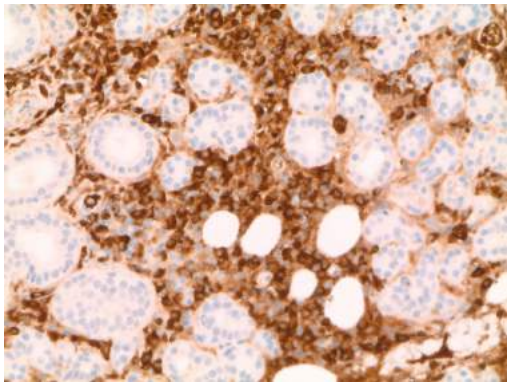
Ig Class: IgG1

Storage: Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months.

Staining procedures: Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions*: Pretreatment of deperaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. Wor*king dilution: 1:100-200*; *Positive Control:* Tonsil. *Cellular Localization*: Cytoplasmic. *Intended Use*: In vitro diagnosis (IVD).

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.

Supplied As: Tissue culture supernatant in 0.2% BSA and 15mM sodium azide.



Formalin-fixed, paraffin-embedded human salivary gland stained with anti-IgG4 antibody using peroxidase-conjugate and DAB chromogen. Note the cytoplasmic staining of plasma cells

Cat. #Z2366 (1.0 ml)

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