

Mouse Anti-IgG4 [IGHG4/1345]: MC0380, MC0380RTU7

Intended Use: For Research Use Only

Description: 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. As these patients tend to respond favorably to steroid treatment, it is important to recognize this entity and differentiate it from such mimics as lymphoma. Clinical manifestations are apparent in the pancreas, bile duct, gallbladder, lacrimal gland, salivary gland, retroperitoneum, kidney, lung, breast, thyroid, and prostate. Immunohistochemical analyses in the case of IgG4-related sclerosing disease not only exhibits significantly more IgG4-positive plasma cells in affected tissues but also significantly higher IgG4/ IgG ratios (typically > 30%).

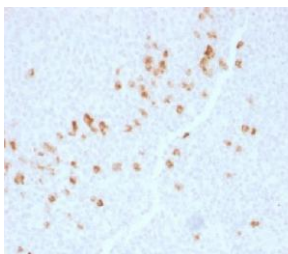
Specifications:

Clone: IGHG4/1345
Source: Mouse
Isotype: IgG1k
Reactivity: Human
Immunogen: Recombinant human IgG4 fragment
Localization: Cytoplasm
Formulation: Purified antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
Storage: Store at 2°- 8°C
Applications: IHC
Package:

| Description | Catalog No. | Size |
|-------------------|-------------|------|
| IgG4 Concentrated | MC0380 | 1 ml |
| IgG4 Prediluted | MC0380RTU7 | 7 ml |

IHC Procedure*:

Positive Control Tissue: Tonsil
Concentrated Dilution: 50-200
Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp: 30-60 min @ RT
Detection: Refer to the detection system manual
* Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with anti-IgG4 using DAB

References:

1. Gastric cancer concurrent with IgG4-related disease: A clinical case and a review of literature. Kazantseva IA, et al. Arkh Patol. Jul-Aug;78(4):43-7, 2016.
2. Paediatric selective IgM deficiency and IgG4 deficiency: an extremely unusual association. Bolia R, et al. BMJ Case Rep. Sep 1;2014, 2014.
3. Evolution of immunoglobulin subclasses. Primary structure of a murine myeloma $\gamma 1$ chain. Adetugbo, K., et al. J. Biol. Chem. 253: 6068-6075, 1978.

Doc. 100-MC0380
Rev. A