

IgG4

Recombinant Rabbit Monoclonal Antibody

Product Datasheet

Catalog# BX50334

Clone# BP6309

Predicted Molecular Wt: 36kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P01861

Background:

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. Clinical manifestations are apparent in the pancreas, bile duct, gall bladder, lacrimal gland, salivary gland, retroperitoneum, kidney, lung, breast, thyroid, and prostate. Immunohistochemical analyses in the case of IgG4-related sclerosing disease not only exhibit significantly more than normal IgG4-positive plasma cells in affected tissues but also significantly higher IgG4/IgG ratios (typically > 30%).

IgG4 antibodies will dominate the IgG response in schistosomiasis, lymphatic filariasis, and in patients after allergen immunotherapy. Unlike the other IgG subclasses, IgG4 does not activate complement. A combined IgA-IgG4 deficiency has been associated with recurrent pyogenic infections.

Subcellular location:

Secreted

Recommended Method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Synthetic peptide. This information is proprietary to Biolynx.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage Conditions:

-25°C to -18°C

Shipment Instructions:

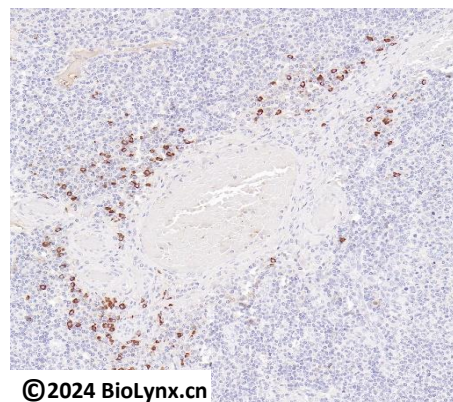
Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilution:

IHC-P: 1:100-1:200

Background References:

- Li J et al. (2020) Mol Med Rep 22:371-379 (2020).
- Kosaka S et al.(2022) Dig Dis Sci 67:3639-3648.



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Tonsil labelling IgG4 with BP6309.

Specific performance:

	IgG1	IgG2	IgG3	IgG4
BP6309	-	-	-	+

Product QC'd by:



For research use only. Not for use in diagnostic or therapeutic applications.