

## Anti-Human IgG4 IGHG4 Rabbit Monoclonal Antibody, Clone#RM120

Catalog Number: M11385-2

### Overview

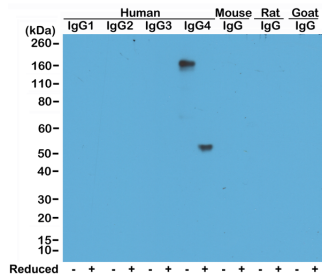
Product Name	Anti-Human IgG4 IGHG4 Rabbit Monoclonal Antibody, Clone#RM120
Reactive Species	Human
Description	Boster Bio Anti-Human IgG4 IGHG4 Rabbit Monoclonal Antibody, Clone#RM120 (Catalog # M11385-2). Tested in ELISA, ICC, IHC, Flow Cytometry applications. This antibody reacts with Human.
Application	ELISA, Flow Cytometry, IHC, ICC
Clonality	Monoclonal RM120
Formulation	50% Glycerol/PBS with 1% BSA and 0.09% sodium azide
Storage Instructions	Store at -20°C for one year. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P01861

### Technical Details

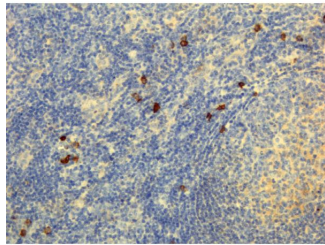
Immunogen	Peptide corresponding to the hinge region of Human IgG4
Cross Reactivity	Reacts to the heavy chain of human IgG4, RM120 does not cross-react to any other IgG subclasses (IgG1, IgG2, IgG3), and shows no cross-reactivity to IgM, IgA, IgD, IgE. RM120 does not react to monkey (Cyno or Rhesus) IgG, mouse IgG, rat IgG, or goat IgG.
Isotype	Rabbit IgG
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A affinity purified from an animal origin-free culture supernatant
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>ELISA: 50ng/well – 200ng/well (for Capture)</p> <p>0.05ug/mL – 0.2ug/mL (for Detection)</p> <p>WB: 0.5 ug/mL – 2 ug/mL</p> <p>Flow Cytometry (FC): 1ug/mL-4ug/mL.</p>



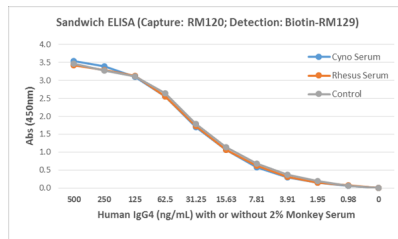
## Anti-Human IgG4 IGHG4 Rabbit Monoclonal Antibody, Clone#RM120 (M11385-2) Images



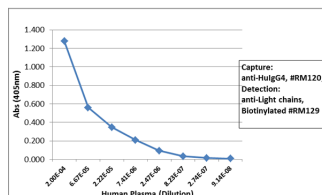
**Figure 1. Western Blotting result**  
Western Blot of human, mouse, rat, and goat IgG shows RM120 reacted to human IgG4 both whole molecule (~150kDa, non-reduced) and heavy chain (~50kDa, reduced). No cross reactivity with other isotype of human IgG, and mouse, rat, or goat IgG.



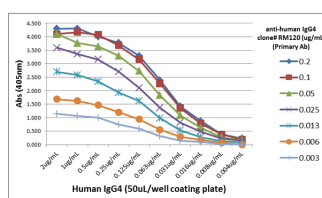
**Figure 2. IHC result**  
Immunohistochemistry of human lymphoid tissue using anti-human IgG4 antibody RM120.



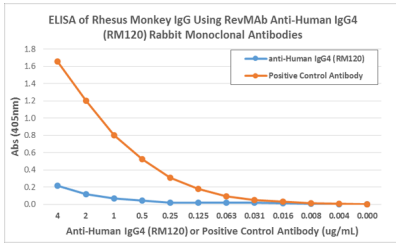
**Figure 3. ELISA result showing specificity**  
Detection of human IgG4 in monkey serum. Sandwich ELISA using RM120 as the capture antibody, and biotinylated anti-human light chains ( or ) antibody RM129 as the detection antibody, followed by a HRP conjugated streptavidin.



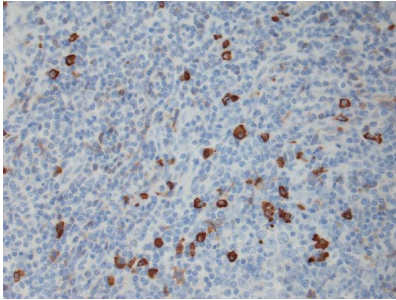
**Figure 4. ELISA result showing specificity**  
Sandwich ELISA using RM120 as the capture antibody, and Biotinylated anti-human light chains ( + ) antibody RM129 as the detection antibody, followed by an AP conjugated streptavidin.



**Figure 5. ELISA result showing specificity**  
A titer ELISA using RM120. The plate was coated with different amounts of human IgG4. A serial dilution of RM120 was used as the primary antibody, followed by an alkaline phosphatase conjugated anti-rabbit IgG as the secondary antibody.



**Figure 6. ELISA result showing specificity**  
ELISA showing RM120 does not react to monkey IgG. The plate was coated with Rhesus monkey IgG. A serial dilution of RM120 and a monkey IgG binding antibody (positive control) was used as the detection antibody.



**Figure 7. IHC result**  
Immunohistochemical staining of FFPE Tonsil tissue sections using Anti-Human IgG4 antibody RM120 at a 1:50,000 dilution.

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