



# Anti-Human IgG4 monoclonal antibody, clone IP6024 (DMAB4662)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Mab to IgG4 Mouse Monoclonal Antibody to Human Immunoglobulin G4 (IgG4), $\gamma$ 4 chain specific
<b>Specificity</b>	Reacts with the pFc' portion of the heavy chain of human IgG4 as demonstrated by ELISA and/or FLISA.
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	IP6024
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Enzyme-Linked-Immunosorbent-Assay (ELISA); Fluorescent-Linked- Immunosorbent- Assay (FLISA); Western blotting; Dot- and slot- immunoblotting; Immunohistochemistry (frozen sections); Immunocytochemistry
<b>Format</b>	Purified (UNLB) Antibody
<b>Size</b>	500 $\mu$ g
<b>Preservative</b>	None

## BACKGROUND

<b>Introduction</b>	Immunoglobulin G (IgG) are antibody molecules. Each IgG is composed of four peptide chains — two heavy chains $\gamma$ and two light chains. Each IgG has two antigen binding sites. Other Immunoglobulins may be described in terms of polymers with the IgG structure considered the
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monomer. IgG molecules are synthesized and secreted by plasma B cells. IgG antibodies are large molecules of about 150 kDa composed of 4 peptide chains. It contains 2 identical heavy chains of about 50 kDa and 2 identical light chains of about 25 kDa, thus a tetrameric quaternary structure. The two heavy chains are linked to each other and to a light chain each by disulfide bonds. The resulting tetramer has two identical halves, which together form the Y-like shape. Each end of the fork contains an identical antigen binding site. The Fc regions of IgGs bear a highly conserved N-glycosylation site. The N-glycans attached to this site are predominantly core-fucosylated antennary structures of the complex type. In addition, small amounts of these N-glycans also bear bisecting GlcNAc and  $\alpha$ -2,6-linked sialic acid residues.

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**Keywords**

IgG4; Ig gamma 4 chain C region;IGHG4; Immunoglobulin heavy constant gamma 4 (G4m marker); MGC117419; Immunoglobulin G4; IgG4  $\gamma$ 4; Immunoglobulin G4  $\gamma$ 4; IgG4 pFc'; Immunoglobulin G4 pFc'; IgG4 heavy chain; Immunoglobulin G4 heavy chain; IgG4  $\gamma$ 4 heav

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