

## Product datasheet for **EA200034**

### Human IgG4 ELISA Kit 1 x 96

#### Product data:

Product Type:	ELISA Kits
Description:	Human IgG4 ELISA Kit 1 x 96
Size:	1 x 96 wells
Format:	8x12 divisible strips
Assay Type:	Sandwich
Assay Length:	3.5 hours incubations; 0.5 hour washing and analyzing samples
Signal:	Colorimetric
Curve Range:	0.78-50ng/ml
Sample Type:	Human serum, plasma, and other biological fluids.
Sample Volume:	100µl
Specificity:	This kit is used for quantitative detection of IgG4
Sensitivity:	0.39ng/ml
Reactivity:	Human
Cross Reactivity:	There is no detectable cross-reactivity with other relevant proteins.
Interference:	No significant interference observed with available related molecules.
Components:	<ul style="list-style-type: none"><li>● IgG4 Monoclonal Antibody Coated 96-well Plate in foil pouch with desiccant   1 plate</li><li>● Native Human IgG4 Standard (2.5µg/ml)   0.1 mL</li><li>● 100x Biotin conjugated IgG4 Detection Antibody   0.12 mL</li><li>● 100x SA-HRP Conjugate   0.12 mL</li><li>● Assay Buffer   40 mL</li><li>● Sample Diluent   30 mL</li><li>● Wash Buffer Concentrate 20X   60 mL</li><li>● TMB Substrate   12 mL</li><li>● Stop Solution   12 mL</li><li>● Plate Sealer   3 pieces</li></ul>



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**Background:**

Immunoglobulin G (IgG) is a type of antibody. Representing approximately 75% of serum antibodies in humans. IgG molecules are created and released by plasma B cells. IgG is the main type of antibody found in blood and extracellular fluid, allowing it to control infection of body tissues. By binding many kinds of pathogens such as viruses, bacteria, and fungi, IgG protects the body from infection. IgG4 is one of the four IgG subclasses (IgG1, 2, 3, and 4) in humans, which accounts for 4% of total IgG. Many chronic inflammatory conditions are IgG4-related, called IgG4-related disease (IgG4-RD), which is characterized by tissue infiltration with lymphocytes and IgG4-secreting plasma cells, various degrees of fibrosis (scarring) and a usually prompt response to oral steroids. IgG4-RD can involve one or multiple sites in the body. In approximately 51–70% of people with this disease, serum IgG4 concentrations are elevated during an acute phase. Several different diseases that have been known for many years are now considered to be manifestations of IgG4-RD. These include: type 1 autoimmune pancreatitis, interstitial nephritis, Riedel's thyroiditis, Mikulicz's disease, Küttner's tumor, inflammatory pseudotumors (in various sites of the body), mediastinal fibrosis and some cases of retroperitoneal fibrosis. IgG4-related disease has been described as an indolent condition. Early detection is important to avoid organ damage and potentially serious complications.

**Gene Symbol:**

IgG4

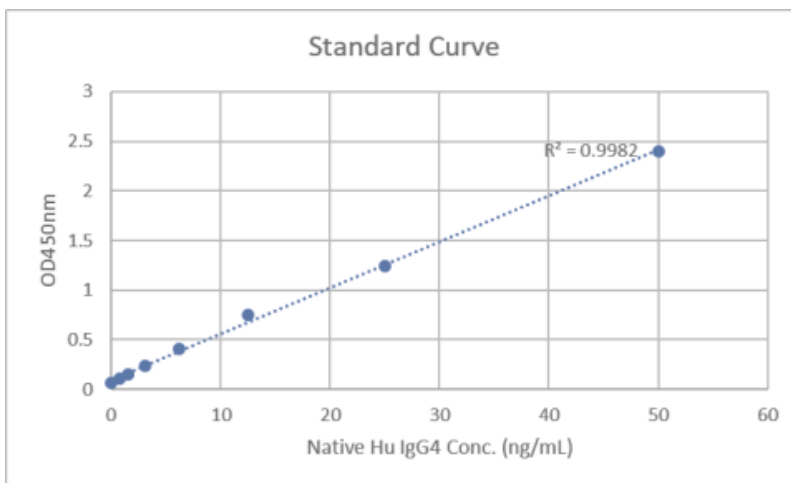
**Gene ID:**

N/A

**Standard Curve:**

□

Data image of Human IgG4 ELISA Kit.

**Product images:**

Data image of Human IgG4 ELISA Kit.