

IgG Kappa

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IgG Kappa refers to a subtype of [immunoglobulin G \(IgG\)](#) that contains **kappa light chains**. Immunoglobulins are antibodies produced by B cells of the immune system and play a crucial role in defending against infections.

Clinical Interpretation of IgG Kappa 1. Normal Physiology:

1. Immunoglobulins consist of **heavy chains** and **light chains**.
2. There are two types of light chains: **kappa** and **lambda**.
3. Normally, there is a balanced ratio between **kappa and lambda** light chains.

2. Increased IgG Kappa:

1. May indicate a **clonal expansion** of plasma cells producing this specific immunoglobulin.
2. Commonly associated with **monoclonal gammopathies**, such as:
 1. **IgG Kappa Multiple Myeloma**.
 2. **Monoclonal Gammopathy of Undetermined Significance (MGUS)**.
 3. **Waldenström's Macroglobulinemia**.
 4. **B-cell Lymphoma**.

3. Decreased IgG Kappa:

1. May be seen in **immunodeficiencies**, such as **hypogammaglobulinemia** or **Common Variable Immunodeficiency (CVID)**.
2. Can also occur in disorders affecting antibody production, including certain **leukemias** or **lymphomas**.

4. Kappa/Lambda Ratio:

1. The **serum kappa-to-lambda light chain ratio** is an important diagnostic marker for monoclonal gammopathies.
2. A **high ratio** suggests **clonal proliferation of kappa-producing plasma cells**.
3. A **low ratio** suggests **lambda light chain dominance**, which can also indicate a plasma cell disorder.

When Is an IgG Kappa Test Ordered? - To evaluate **monoclonal gammopathies**. - For **diagnosis and monitoring of multiple myeloma**. - In assessing **immune deficiencies**. - For detecting **lymphoproliferative disorders**.

If **IgG Kappa** levels are abnormal, additional tests may be needed, such as: - **Serum protein electrophoresis (SPEP)**. - **Immunofixation electrophoresis (IFE)**. - **Serum free light chain assay (FLC)**. - **Bone marrow biopsy** if multiple myeloma is suspected.

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