OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-888-267-4436
Fax: +1-301-340-8606
techsupport@origene.com

OriGene Technologies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info-de@origene.com

AM26025HR-N Monoclonal Antibody to Human IgG (Fc heavy chain specific) - HRP

Alternate names: Human Immunoglobulin G

Quantity: 0.1 mg

Concentration: 1.0 mg/ml

Background: Immunoglobulin G (IgG) is a 150 kDa soluble protein that serves as a major effector molecule of the humoral immune response in man. Its concentration in blood plasma of healthy individuals is approximately 10 g/l, which accounts for about 75% of the total plasma immunoglobulins. IgG has the highest stability of blood immunoglobulins (T1/2 = 21 days) and is able of placental transfer. IgG is secreted by plasma cells at a comparably high rate as other immunoglobulins.

Host / Isotype: Mouse / IgG1

Clone: EM-07

Immunogen: Fusion protein of Human IgG Fc fragment

Format:
State: Liquid purified IgG fraction
Buffer System: PBS
Preservatives: 0.01% (w/v) Thimerosal
Stabilizers: 1% (w/v) high-grade BSA (Protease free)
Label: HRP – Conjugated with Horseradish Peroxidase of high specific activity and RZ=3

Applications:
ELISA: 0.1-0.5 µg/ml.
Western blot.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody reacts with Fc part of Human IgG heavy chain and with isolated Fc fragments.

Species Reactivity: **Tested:** Human.

Storage:
Store undiluted at 2-8°C.
DO NOT FREEZE!
This product is photosensitive and should be protected from light.
Shelf life: one year from despatch.

General Readings:
1. Franklin EC. Structure and function of immunoglobulins. Acta Endocrinol Suppl (Copenh). 1975;194:77-95. PubMed PMID: 47690.
2. Fuller JM, Keyser JW. Serum immunoglobulins after surgical operation. Clin Chem. 1975 May;21(6):667-71. PubMed PMID: 1122610.
3. Balogh Z, Merétey K, Falus A, Bozsóky S. Serological abnormalities in juvenile chronic arthritis: a review of 46 cases. Ann Rheum Dis. 1980 Apr;39(2):129-34. PubMed PMID: 6966908.
4. Brinkmann V, Heusser CH. T cell-dependent differentiation of human B cells into IgM, IgG, IgA, or IgE plasma cells: high rate of antibody production by IgE plasma

cells, but limited clonal expansion of IgE precursors. Cell Immunol. 1993 Dec;152(2):323-32. PubMed PMID: 8258141.

Pictures:

IgG κ light chain (1), IgG λ light chain (2) and IgG Fc fragment (3) purified from human serum were analysed by Western blotting with MEM-09 antibody against IgG κ light chain (A) and EM-07 antibody against IgG Fc fragment (B).