



3050 Spruce Street
Saint Louis, Missouri 63103 USA
Telephone 800-325-5832 • (314) 771-5765
Fax (314) 286-7828
email: techserv@sial.com
sigma-aldrich.com

Product Information

ANTI-HUMAN IgG (α -CHAIN SPECIFIC)

Developed in Goat
IgG Fraction of Antiserum

Product Number I 7883

Product Description

Anti-human IgG (α -chain specific) is developed in goat using purified human IgG as the immunogen. To ensure specificity the antiserum is adsorbed, if necessary, using solid phase techniques. Whole antiserum is fractionated and chromatographed by ion exchange chromatography to provide the IgG fraction.

Specificity for the α -chain of human IgG is determined by Ouchterlony Double Diffusion (ODD). The antibody preparation is specific for human IgG when tested against purified human IgA, IgG, IgM, Bence Jones kappa and Bence Jones lambda myeloma proteins.

Reagents

The resultant antiserum is lyophilized from 0.01 M phosphate buffered saline, pH 7.2, to which no preservatives have been added.

Storage/Stability

Store the product at 2-8 °C.

After reconstitution, the solution may be stored frozen in working aliquots. Repeated freezing and thawing is not recommended. If slight turbidity occurs upon prolonged storage clarify the solution by centrifugation before use.

Product Profile

Identity and purity of the antibody is established by immunoelectrophoresis (IEP). Electrophoresis of the antiserum followed by diffusion versus anti-goat IgG and anti-goat whole serum results in single arcs of precipitation in the gamma region.

Using a double diffusion assay, in 1% agarose, 5 μ l of serially diluted goat anti-human IgG is reacted against 5 μ l of a 1 mg/ml solution of purified human IgG (well diameter; 3.5mm, well separation; 7.5 mm center to center). Titer is equivalent to the highest dilution of antiserum resulting in a visible precipitate by 24 hours.

Reconstitution

To one vial of lyophilized powder add 2 ml of deionized water. Rotate vial gently until powder dissolves.

JWM/DAA 3/2003

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.