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HUMAN IgG Fc

Catalog # ASR2419

Product Information

Description	HUMAN IgG F(c) fragment
Conjugate	Unconjugated
Physical State	Liquid (sterile filtered)
Host Isotype	IgG F(c)
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Species of Origin	Human
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide

Additional Information

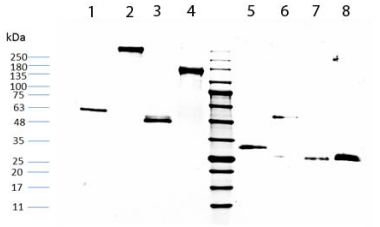
Shipping Condition	Wet Ice
Application Note	HUMAN IgG F(c) Fragment can be utilized as a control or standard reagent in SDS, Western Blotting, and ELISA experiments.
Purity	HUMAN IgG F(c) was prepared from normal serum by a multi-step process which includes delipidation, salt fractionation, ion exchange chromatography and papain digestion followed by chromatographic separation and extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Human Serum, anti-Human IgG and anti-Human IgG F(c). No reaction was observed against anti-Human IgG F(ab')2 or anti-Papain.
Storage Condition	Store vial at 4° C prior to opening. This product is stable 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage mix with an equal volume of glycerol, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing.
Precautions Note	This product is for research use only and is not intended for therapeutic or diagnostic applications.

Background

Human IgG Fc purified protein is a proteolytic fragment of immunoglobulin G (IgG) obtained by limited digestion with the enzyme papain under controlled conditions of temperature, time and pH. Receptors bind the Fc portion of Human IgG and often this fragment is removed from immunoglobulins to minimize receptor binding and lower background reactivity.

Images

SDS-PAGE of Human IgG Fc. Lane 1: Non-reduced Human



IgG Fc Lane 2: Non-reduced Human IgG Whole Molecule Lane 3: Non-reduced Human IgG F(ab) Fragment Lane 4: Non-reduced Human IgG F(ab')2 Fragment. Middle Lane: 5 µL OPAL Pre-stained Marker MB-210-0500. Lane 5: Reduced Human IgG Fc Lane 6: Reduced Human IgG Whole Molecule Lane 7: Reduced Human IgG F(ab) Fragment Lane 8: Reduced Human IgG F(ab')2 Fragment. Load: 1 µg per lane. Human IgG Whole Molecule, Human IgG F(ab) Fragment and Human IgG F(ab')2 Fragment ran as controls. Predicted/Observed size: Non-reduced at 50 kDa, reduced at 25 kDa/Non-reduced at 55-60 kDa, reduced at 30-33 kDa.