10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Horse IgG F(c) fragment

Catalog # ASR2134

Product Information

Description	HORSE IgG F(c) fragment
Conjugate	Unconjugated
Physical State	Lyophilized
Host Isotype	IgG F(c)
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Species of Origin	Horse
Reconstitution Volume	1.0 mL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Preservative	0.01% (w/v) Sodium Azide

Additional Information

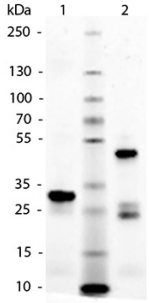
Shipping Condition	Ambient
Application Note	Horse IgG F(c) Fragment can be utilized as a control or standard reagent in Western Blotting and ELISA experiments. Horse IgG F(c) Fragment is stable at 4° C prior to restoration. It is recommended to aliquot restored Horse IgG F(c) Fragment and store at -20° C for extended storage and to prevent repeated freeze-thaw cycles.
Purity	Horse IgG F(c) fragment 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. Horse IgG F(c) fragment assayed by immunoelectrophoresis resulted in a single precipitin arc against anti-Horse Serum, anti-Horse IgG and anti-Horse IgG F(c). No reaction was observed against anti-Horse IgG F(ab')2 or anti-Papain.
Storage Condition	Store vial at 4° C prior to restoration. Restore with 1.0 mL of deionized water (or equivalent). For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Horse IgG F(c) fragment is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Precautions Note	This product is for research use only and is not intended for therapeutic or diagnostic applications.

Background

Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75% of serum immunoglobulins. Immunoglobulin G binds to viruses, bacteria, as well as fungi and facilitates their destruction or neutralization via agglutination (and thereby immobilizing them), activation of the

compliment cascade, and opsinization for phagocytosis. The F(c) fragment binds with very high affinity to the Fc receptor proteins on phagocytic leukocytes. When digested from the whole antibody molecule, the F(c) fragment no longer posses the epitope recognition site.

Images



SDS-Page of Horse IgG F(c) Fragment. Lane 1: Horse IgG F(c) Fragment – Reduced. Lane 2: Horse IgG F(c) Fragment – Non-reduced. Load: 1.0 µg per lane.
Predicted/Observed Size: Reduced- 25 kDa, Non-Reduced- 50 kDa.