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Dog IgG F(c)

Catalog # ASR3072

Product Information

Description	DOG 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	Dog
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide

Additional Information

Shipping Condition	Wet Ice
Application Note	Dog IgG F(c) Fragment can be utilized as a control or standard reagent in Western Blotting and ELISA experiments. Dog IgG F(c) Fragment is stable at 4° C prior to restoration. It is recommended to aliquot restored Dog IgG F(c) Fragment and store at -20° C for extended storage and to prevent repeated freeze-thaw cycles.
Purity	Dog 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. Dog IgG F(c) Fragment was assayed by immunoelectrophoresis resulted in a single precipitin arc against anti-Dog Serum, anti-Dog IgG and anti-Dog IgG F(c). No reaction was observed against anti-Dog 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

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.