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Datasheet for 606-1103

Guinea Pig IgG Fc Antibody

Overview

Description:	Goat Anti-Guinea Pig IgG Fc Antibody - 606-1103
Item No.:	606-1103
Size:	2 mg
Applications:	WB
Reactivity:	Guinea Pig
Host Species:	Goat

Product Details

Background:	Anti-Guinea Pig IgG F(c) generated in goat 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 Guinea Pig IgG and often this fragment is removed from immunoglobulins to minimize receptor binding and lower background reactivity. Anti-Guinea Pig IgG F(c) antibody is ideal for investigators in Cancer, Immunology, and Microbiology research.
Synonyms:	Guinea Pig IgG F(c) Antibody, Goat-a-Guinea Pig F(c), Guinea Pig F(c) in Goat, Goat anti-guinea pig F(c) Secondary Antibody.
Host Species:	Goat
Specificity:	IgG Fc
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Guinea Pig
Immunogen:	Guinea Pig IgG F(c) fragment

Purity/Specificity:	Anti-Guinea Pig IgG F(c) Antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Guinea Pig IgG coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, Guinea Pig IgG, Guinea Pig IgG F(c) and Guinea Pig Serum. No reaction was observed against Guinea Pig IgG F(ab).

Application Details

Suggested Applications:	WB (Based on references)
Application Note:	Anti-Guinea Pig IgG F(c) antibody has been assayed against 1.0 ug of Sheep IgG in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:2,000 to 1:8,000 of the reconstitution concentration is suggested for Anti-guinea Pig IgG F(c) Antibody.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:100,000
IHC:	1:1,000 - 1:5,000
WB:	1:2,000 - 1:10,000

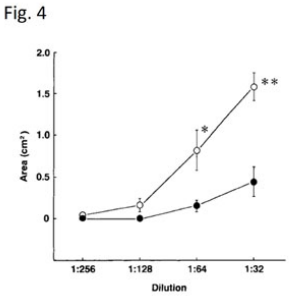
Formulation

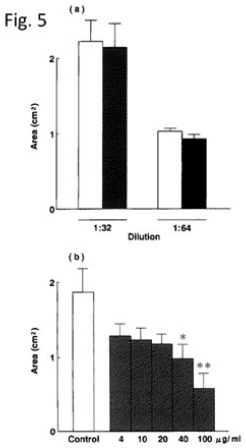
Physical State:	Liquid (sterile filtered)
Concentration:	2.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is one (1) year from date of receipt.

Images





ELISA
The 4-h and 7-d PCA reactions during the Challenges/Boosters of Pollen Instillation.
On the 20th day after the 1st immunization, sera was obtained to estimate IgG and IgG antibody reactions using 4-h and 7-d PCAs, respectively. As shown in [Fig 4.], a significant effect was observed in 4-h PCA with a titer of 1:64 and 1:32 dilutions. Seven-day PCA was also elevated with a titer of 1:32 dilutions. The 4-h PCA reaction was not abolished with the heat (56°C, 4h) [Fig 5a], but the PCA reaction was significantly abolished by antibody absorbed with IgG-Fc antibody at concentrations of 40 and 100µg/mL [Fig 5b].
Fig 4. PCA reaction induced by Anti-Cedar Pollen Antibody in Guinea Pigs.
Each value shows mean ± SEM (n=5). Unfilled circle = 4h, black filled circle = 7d. *, ** Significantly different from 7-d sensitized group at $p<0.01$ and $p<0.05$, respectively.
Fig 5. PCA reaction induced by antibody treatment by heat and absorbing with IgG-Fc in Guinea Pigs. (a) Effect of incubation at 56°C for 4h. Each value shows mean ±SEM (n=5). Unfilled bar = control, black filled bar = incubation at 56°C for 4h. (b) Effect of antibody absorbed with IgG-Fc. Each value shows mean ±SEM (n=5). *, ** Significantly different from 7-d sensitized group at $p<0.01$ and $p<0.05$, respectively.
Fig 4 and 5. PMID: 10823665.

References

- Takada M et al. Experimental allergic conjunctivitis in guinea pigs induced by Japanese cedar pollen. *Biol Pharm Bull.* (2000)

Disclaimer

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