

Datasheet for 009-0050

Human IgG Agarose

Overview

Description:	Human IgG Whole Molecule Agarose Conjugated - 009-0050
Item No.:	009-0050
Size:	10 mg
Applications:	SDS-PAGE, WB
Origin:	Human

Product Details

Background:	Human IgG whole molecule Agarose Conjugated product is made from IgG, 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 complement cascade, and opsonization for phagocytosis. The whole IgG molecule possesses both the F(c) region, recognized by high-affinity Fc receptor proteins, as well as the F(ab) region possessing the epitope-recognition site. Both heavy and light chains of the antibody molecule are present.
Synonyms:	Human IgG Whole Molecule Agarose Conjugate, Human IgG Agarose
Species of Origin:	Human
Conjugate:	Agarose
Format:	IgG
Type:	Native Protein

Target Details

Purity/Specificity:	This product was prepared by coupling purified Human IgG antibody to activated agarose. Sufficient antibody capacity is provided to bind a minimum of 5 mg of anti-Human IgG antibody.
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Application Details

Tested Applications:	SDS-PAGE
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Suggested Applications:	WB (Based on references)
Application Note:	Human IgG Agarose has been tested by SDS-Page and is suitable for immunoprecipitation and Immunoaffinity purifications.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

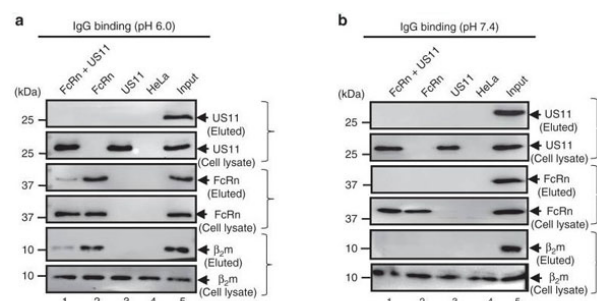
Formulation

Physical State:	Suspension of agarose beads
Concentration:	2.5 mg/mL antibody per cc agarose
Buffer:	0.01 M Sodium 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. DO NOT FREEZE.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

HCMV and US11 reduce FcRn-mediated IgG transcytosis in epithelial monolayers. a–d The presence of US11 reduces FcRn binding to IgG. HeLa transfectants were lysed in pH 6.0 (a) or pH 7.4 (b) condition. Approximately 0.5 mg of soluble proteins were incubated with human IgG-Sepharose at 4 °C. Eluted proteins were subjected to western blotting analysis with corresponding Abs as indicated. Cell lysates were blotted as control. Fig. 8. PMID: 31289263.

References

- Liu X et al. Human cytomegalovirus evades antibody-mediated immunity through endoplasmic reticulum-associated degradation of the FcRn receptor. *Nat Commun.* (2019)

Disclaimer

No test method can provide total assurance that the hepatitis B virus, hepatitis C virus, human immunodeficiency virus, or any other infectious agents are absent. Thus, all blood products, including purified proteins derived from human blood sources, should be handled at Biosafety Level 2 as recommended by the CDC\NIH manual entitled Biosafety in Microbiological and Biomedical Laboratories for potentially infectious human serum, blood specimens or proteins derived from same. Source material for the human blood product supplied to your facility has been tested for the detection of HIV antibody, Hepatitis B surface antigen, antibody to Hepatitis C, HIV 1 antigen(s), antibody to HTLV - I/II, and syphilis by FDA guidelines. All units were found to be non-reactive/negative for these tests. All human blood source material is collected in FDA licensed centers and is tested with FDA approved test kits.

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