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Datasheet for 210-4302

Mouse IgG (H&L) Antibody Peroxidase Conjugated

Overview

Description:	Rabbit Anti-Mouse IgG (H&L) Antibody Peroxidase Conjugated - 210-4302
Item No.:	210-4302
Size:	20 mg
Applications:	ELISA, WB
Reactivity:	Mouse
Host Species:	Rabbit

Product Details

Background:	Anti-Mouse IgG Antibody generated in rabbit detects reactivity to Mouse 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 compliment 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 the Heavy and Light chains of the antibody molecule are present. Secondary Antibodies are available in a variety of formats and conjugate types. When choosing a secondary antibody product, consideration must be given to species and immunoglobulin specificity, conjugate type, fragment and chain specificity, level of cross-reactivity, and host-species source and fragment composition.
Synonyms:	Rabbit anti-Mouse IgG Peroxidase Conjugated Antibody, Rb anti-Mouse IgG HRP Conjugated Antibody
Host Species:	Rabbit
Specificity:	IgG (H&L)
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Mouse

Immunogen:	Mouse IgG whole molecule
Purity/Specificity:	This product is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Rabbit Serum, Mouse IgG and Mouse Serum.

Application Details

Suggested Applications:	ELISA, WB (Based on references)
Application Note:	This product is designed for ELISA and western blotting. This product is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:50,000
IHC:	1:500 - 1:2,500
WB:	1:1,000 - 1:10,000

Formulation

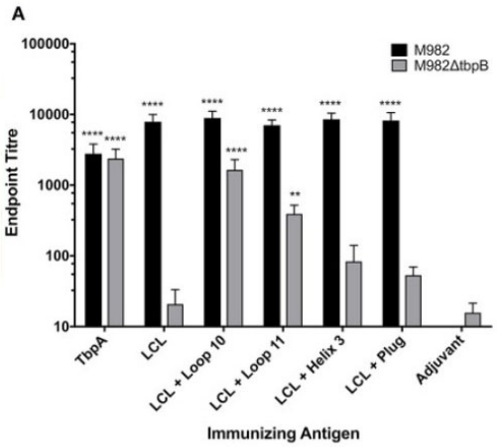
Physical State:	Lyophilized
Concentration:	10.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	None
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	2.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

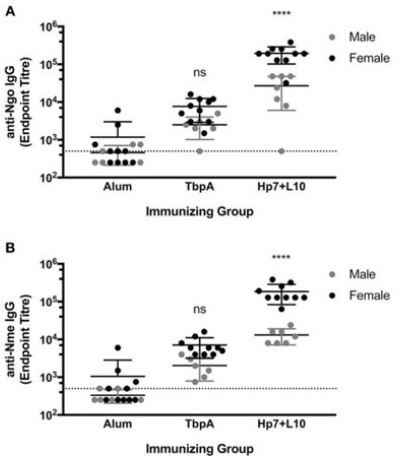
Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



ELISA
In vitro characterization of the LCL scaffold and the LCL-TbpA hybrid antigens. (A) Mouse sera were evaluated in a whole cell ELISA against both wild-type N. meningitidis M982 (Black) and M982 with TbpB knocked out (M982ΔtbpB; Gray). Sera were assayed in triplicate from individual mice (4 to 5 mice per group) and averaged and displayed as mean +/- SEM. Significance was determined as a significant increase in titer compared with mice that received adjuvant alone by two-way ANOVA with Sidak's multiple comparison test for both wildtype and knockout data sets. **p ≤ 0.01, ****p ≤ 0.0001. Figure 5. PMID: 30837995.



ELISA
Whole-cell serum IgG ELISA titres of mice immunized with alum, TbpA or Hp7-L10 when captured by (A) heat-killed N. gonorrhoeae strain MS11 or (B) heat-killed N. meningitidis strain M982. Female mice were used in the lower genital tract gonococcal colonization, while male mice were challenged systemically with N. meningitidis. Significance was determined as a significant increase in titer compared with mice that received alum alone by ordinary one-way ANOVA with post-hoc analysis by Dunnett's multiple comparisons test. ****p < 0.0001. Figure 6. PMID: 30837995.

References

- Fegan, JE et al. Utility of Hybrid Transferrin Binding Protein Antigens for Protection Against Pathogenic Neisseria Species. *Frontiers in Immunology* (2019)
- Gullicksen PS et al. Detection of DNA fragmentation and apoptotic proteins, and quantification of uncoupling protein expression by real-time RT-PCR in adipose tissue. *J Biochem Biophys Methods.* (2004)
- Gullicksen PS et al. Adipose tissue cellularity and apoptosis after intracerebroventricular injections of leptin and 21 days of recovery in rats. *Int J Obes Relat Metab Disord.* (2003)

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