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Datasheet for 610-701-002

Mouse IgG (H&L) Antibody

Overview

Description:	Donkey Anti-Mouse IgG (H&L) Antibody - 610-701-002
Item No.:	610-701-002
Size:	2 mg
Applications:	ELISA, WB
Reactivity:	Mouse
Host Species:	Donkey

Product Details

Background:	Anti-Mouse IgG Antibody generated in donkey 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:	Donkey anti-Mouse IgG (H&L) Antibody, Donkey anti Mouse IgG Antibody
Host Species:	Donkey
Specificity:	IgG (H&L)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Mouse
Immunogen:	Mouse IgG whole molecule

Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Mouse IgG coupled to agarose. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Donkey Serum, Mouse IgG and Mouse Serum.

Application Details

Tested Applications:	ELISA
Suggested Applications:	WB (Based on references)
Application Note:	Anti-Mouse IgG antibody has been tested by ELISA and is suitable for ELISA, western blot, and immunohistochemistry, as well as other assays requiring lot-to-lot consistency.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:50,000 - 1:150,000
IHC:	1:1,000 - 1:5,000
WB:	1:2,000 - 1:10,000

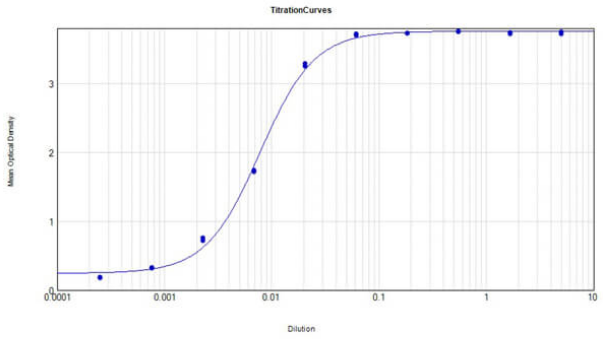
Formulation

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
ELISA Results of Donkey Anti-Mouse IgG Antibody tested against purified Mouse IgG. Each well was coated in duplicate with 1.0 µg of Mouse IgG (p/n 010-0102). The working dilution is 1:128,000. The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using HRP Conjugation Stabilizer (p/n MB-076), Goat Anti-Donkey HRP conjugated (p/n 616-1302) and TMB substrate (p/n TMBE-1000).

References

- Yuanxiang Huang et al. Edaravone Dexborneol Downregulates Neutrophil Extracellular Trap Expression and Ameliorates Blood-Brain Barrier Permeability in Acute Ischemic Stroke. *Mediators Inflamm.* (2022)
- He, QR et al. Expression changes of nerve cell adhesion molecules L1 and semaphorin 3A after peripheral nerve injury. *Neural Regeneration Research* (2016)

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