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Schillerstr. 5

SM1505P Monoclonal Antibody to Equine IgGb - Purified

Alternate names: Horse IgGb

Quantity: 0.1 mg

Concentration: 1.0 mg/ml

Background: Equine IgGb is an immunologlobulin with a molecular weight (MW) of approximately

160kDa, the MW of the light chain being 27kDa, common to all equine IgG subclasses, while the heavy chain has a MW of 53kDa, specific to IgGb (*Sheoran et al.* 1998). Equine IgGb has been demonstrated to be involved in long lasting immunity following

respiratory-related viral infections such as Equine Herpes virus Type 4 (EHV-4)

(Mizukoshi et al. 2002) and Equine Influenza (Soboll et al. 2003).

Host / Isotype: Mouse / IgG1 Recommended Isotype AM03095PU-N

Controls:

Clone: CVS39

Immunogen: Purified Equine IgGb.

Spleen cells from immunised Balb/c mice were fused with cells of the mouse

X63-Ag8.653 myeloma cell line.

Format: State: Liquid purified IgG fraction from Tissue Culture Supernatant

Purification: Affinity Chromatography on Protein G

Buffer System: PBS

Preservatives: 0.09% Sodium Azide

Applications: ELISA.

Other applications not tested. Optimal dilutions are dependent on conditions and

should be determined by the user.

Specificity: Mouse anti Horse IgGb antibody, clone CVS39 recognizes Equine IgGb, recently

classified as Equine IgG4/7 (Keggan et al. 2013), and shows no significant binding to

other IgG subclasses. **Species:** Horse.

Other species not tested.

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings: 1. Sheoran AS, Lunn DP, Holmes MA. Monoclonal antibodies to subclass-specific

antigenic determinants on equine immunoglobulin gamma chains and their characterization. Vet Immunol Immunopathol. 1998 Mar 31;62(2):153-65. PubMed

PMID: 9638859.

2. Lewis MJ, Wagner B, Woof JM. The different effector function capabilities of the seven equine IgG subclasses have implications for vaccine strategies. Mol Immunol.

2008 Feb;45(3):818-27. Epub 2007 Jul 31. PubMed PMID: 17669496.

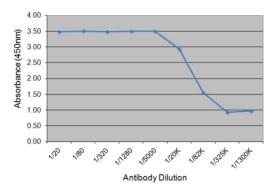
3. Keggan A, Freer H, Rollins A, Wagner B. Production of seven monoclonal equine



immunoglobulins isotyped by multiplex analysis. Vet Immunol Immunopathol. 2013 Jun 15;153(3-4):187-93. doi: 10.1016/j.vetimm.2013.02.010. Epub 2013 Feb 19. PubMed PMID: 23541920.

Pictures:

Purified Horse IgG (PEP001) detected with Mouse anti Horse IgGb (Cat.-No SM1505P) followed by Rabbit F(ab')2 anti Mouse IgG:HRP (Cat,.-No SP1012HRP)



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