

SM1505P**Monoclonal Antibody to Equine IgGb - Purified**

Alternate names:	Horse IgGb
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	<p>Equine IgGb is an immunoglobulin 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 (<i>Sheoran et al.</i> 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) (<i>Mizukoshi et al.</i> 2002) and Equine Influenza (<i>Soboll et al.</i> 2003).</p>
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	AM03095PU-N
Clone:	CVS39
Immunogen:	<p>Purified Equine IgGb.</p> <p>Spleen cells from immunised Balb/c mice were fused with cells of the mouse X63-Ag8.653 myeloma cell line.</p>
Format:	<p>State: Liquid purified IgG fraction from Tissue Culture Supernatant</p> <p>Purification: Affinity Chromatography on Protein G</p> <p>Buffer System: PBS</p> <p>Preservatives: 0.09% Sodium Azide</p>
Applications:	<p>ELISA.</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Specificity:	<p>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.</p> <p>Species: Horse.</p> <p>Other species not tested.</p>
Storage:	<p>Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.</p> <p>Avoid repeated freezing and thawing.</p> <p>Shelf life: one year from despatch.</p>
General Readings:	<ol style="list-style-type: none">1. Sheoran AS, Lunn DP, Holmes MA. Monoclonal antibodies to subclass-specific antigenic determinants on equine immunoglobulin gamma chains and their characterization. <i>Vet Immunol Immunopathol.</i> 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. <i>Mol Immunol.</i> 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 isotypes 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)

