

Datasheet: MCA1396G

BATCH NUMBER 154295

Description:	MOUSE ANTI HISTIDINE TAG
Specificity:	HISTIDINE TAG
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AD1.1.10
Isotype:	IgG1
Quantity:	2 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation	▪			
Western Blotting	▪			1/500 - 1/1000

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Synthetic Peptide
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	PAX6 transcription factor linked to histidine tag.
RRID	AB_1172147
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	<p>Mouse anti Histidine tag antibody, clone AD1.1.10, recognizes proteins and peptides containing the motif H-H-H-H-H and is therefore of value in detecting proteins containing histidine tags. Clone AD1.1.10 has been used to detect and purify histidine-tagged proteins expressed in mammalian (Hoffmann <i>et al.</i> 2007) and Hwang <i>et al.</i> 2008) and non-mammalian (Zheng <i>et al.</i> 2007; Gunnarsen <i>et al.</i> 2010; and de Vooght et al. 2012) cell lines.</p> <p>In Western blotting of bacterial extracts the antibody has been shown not to cross-react with any endogenous products, although some cross-reactivity may be seen with extracts of insect or mammalian cells.</p> <p>This antibody is routinely tested in Western blotting on histidine tagged recombinant proteins and reacts against all histidine-tagged proteins so far tested.</p>
References	<ol style="list-style-type: none"> 1. Els Conrath, K. <i>et al.</i> (2001) Camel single-domain antibodies as modular building units in bispecific and bivalent antibody constructs. J Biol Chem. 276 (10): 7346-50. 2. Suen, J.L. <i>et al.</i> (2001) Characterization of self-T-cell response and antigenic determinant of U1A protein with bone marrow-derived dendritic cells in NZB x NZW F₁ mice. Immunol. 103: 301-309. 3. Hoffmann, S.C. <i>et al.</i> (2007) Identification of CLEC12B, an inhibitory receptor on myeloid cells. J Biol Chem. 282 (31): 22370-5. 4. Zheng, J. <i>et al.</i> (2007) Serum from mice immunized in the context of Treg inhibition identifies DEK as a neuroblastoma tumor antigen. BMC Immunol. 8: 4. 5. Bahi, A. & Dreyer, J.L. (2008) Overexpression of plasminogen activators in the nucleus accumbens enhances cocaine-, amphetamine- and morphine-induced reward and behavioral sensitization. Genes Brain Behav. 7 (2): 244-56. 6. Wrighton, K.H. <i>et al.</i> (2009) Transforming Growth Factor {beta} Can Stimulate Smad1 Phosphorylation Independently of Bone Morphogenetic Protein Receptors. J Biol Chem. 284 (15): 9755-63. 7. Diefenbacher, M. <i>et al.</i> (2011) The Dsl1 Tethering Complex Actively Participates in Soluble NSF (N-Ethylmaleimide-sensitive Factor) Attachment Protein Receptor (SNARE) Complex Assembly at the Endoplasmic Reticulum in <i>Saccharomyces cerevisiae</i>. J Biol Chem. 286: 25027-38. 8. Alvarez, M.M. <i>et al.</i> (2010) Specific recognition of influenza A/H1N1/2009 antibodies in human serum: a simple virus-free ELISA method. PLoS One. 5: e10176. 9. Bahi, A. <i>et al.</i> (2008) The role of tissue-type plasminogen activator system in amphetamine-induced conditional place preference extinction and reinstatement. Neuropsychopharmacology. 33: 2726-34.

10. Gunnarsen, K.S. *et al.* (2010) Periplasmic expression of soluble single chain T cell receptors is rescued by the chaperone FkpA. [BMC Biotechnol. 10: 8.](#)
11. Hwang, H.Y. *et al.* (2008) Highly specific inhibition of C1q globular-head binding to human IgG: a novel approach to control and regulate the classical complement pathway using an engineered single chain antibody variable fragment. [Mol Immunol. 45: 2570-80.](#)
12. De Vooght, L. *et al.* (2012) Expression and extracellular release of a functional anti-trypanosome Nanobody® in *Sodalis glossinidius*, a bacterial symbiont of the tsetse fly. [Microb Cell Fact. 11: 23.](#)
13. Saerens, D. *et al.* (2004) Single domain antibodies derived from dromedary lymph node and peripheral blood lymphocytes sensing conformational variants of prostate-specific antigen. [J Biol Chem. 279 \(50\): 51965-72.](#)
14. Than, N.G. *et al.* (2014) Evolutionary origins of the placental expression of chromosome 19 cluster galectins and their complex dysregulation in preeclampsia. [Placenta. 35: 855-65.](#)
15. Elders RC *et al.* (2014) Recombinant canine IgE Fc and an IgE Fc-TRAIL fusion protein bind to neoplastic canine mast cells. [Vet Immunol Immunopathol. 159 \(1-2\): 29-40.](#)
16. Chin, S.E. *et al.* (2015) Isolation of high-affinity, neutralizing anti-idiotypic antibodies by phage and ribosome display for application in immunogenicity and pharmacokinetic analyses. [J Immunol Methods. 416: 49-58.](#)
17. Peyrassol, X. *et al.* (2016) Development by Genetic Immunization of Monovalent Antibodies (Nanobodies) Behaving as Antagonists of the Human ChemR23 Receptor. [J Immunol. 196 \(6\): 2893-901.](#)
18. Kim H & Loparo JJ (2016) Multistep assembly of DNA condensation clusters by SMC. [Nat Commun. 7: 10200.](#)
19. Borg M *et al.* (2014) A novel interaction between Rab7b and actomyosin reveals a dual role in intracellular transport and cell migration. [J Cell Sci. 127 \(Pt 22\): 4927-39.](#)
20. De Meyer, T. *et al.* (2015) Comparison of VHH-Fc antibody production in *Arabidopsis thaliana*, *Nicotiana benthamiana* and *Pichia pastoris*. [Plant Biotechnol J. 13 \(7\): 938-47.](#)
21. Siddiqui AA *et al.* (2015) Humoral immune responses to a recombinant *Plasmodium vivax* tryptophan-rich antigen among *Plasmodium vivax*-infected patients and its localization in the parasite. [Appl Biochem Biotechnol. 175 \(4\): 2166-77.](#)
22. Warnecke, A. *et al.* (2017) Nitration of MOG diminishes its encephalitogenicity depending on MHC haplotype. [J Neuroimmunol. 303: 1-12.](#)
23. Bertucci, A. *et al.* (2011) A new coral carbonic anhydrase in *Stylophora pistillata*. [Mar Biotechnol \(NY\). 13 \(5\): 992-1002.](#)
24. Liu, C.C. *et al.* (2016) The Fimbrial Protein is a Virulence Factor and Potential Vaccine Antigen of *Avibacterium paragallinarum*. [Avian Dis. 60 \(3\): 649-55.](#)
25. Boujon, C.L. *et al.* (2017) Development and validation of an immunohistochemistry procedure for the detection of a neurotropic bovine astrovirus. [J Virol Methods. 239: 26-33.](#)
26. Cartwright, S.P. *et al.* (2017) Rapid expression and purification of the hepatitis delta virus antigen using the methylotropic yeast *Pichia pastoris*. [BMC Res Notes. 10 \(1\): 340.](#)
27. Thanongsaksrikul, J. *et al.* (2018) Identification and production of mouse scFv to specific epitope of enterovirus-71 virion protein-2 (VP2). [Arch Virol. 163 \(5\): 1141-1152.](#)
28. Gunnarsen, K.S. *et al.* (2018) Soluble T-cell receptor design influences functional yield in an E. coli chaperone-assisted expression system. [PLoS One. 13 \(4\): e0195868.](#)
29. Ascione, A. *et al.* (2019) Development of a novel human phage display-derived

anti-LAG3 scFv antibody targeting CD8⁺ T lymphocyte exhaustion. [BMC Biotechnol. 19 \(1\): 67.](#)

Storage Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

Acknowledgements His-tag is a registered trademark of EMD Biosciences.

Health And Safety Information Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

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