

Datasheet: MCA1396P BATCH NUMBER 162176

Description:	MOUSE ANTI HISTIDINE TAG:HRP		
Specificity:	HISTIDINE TAG		
Format:	HRP		
Product Type:	Monoclonal Antibody		
Clone:	AD1.1.10		
lsotype:	lgG1		
Quantity:	0.1 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 <u>www.bio-</u>						
	rad-antibodies.com/protocols.						
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry						
	Immunohistology - Frozen						
	Immunohistology - Paraffin						
	ELISA	•			1/20 - 1/1000		
	Immunoprecipitation						
	Western Blotting	•			1/1000 - 1/5000		
	Where this antibody has	not been	tested for	use in a particular teo	chnique this does not		
	necessarily exclude its use in such procedures. It is recommended that the user titrates						
	the antibody for use in the	eir own sy	· /stem usii	ng appropriate negativ	e/positive controls.		
Target Species	Synthetic Peptide						
Product Form	Purified IgG conjugated to Horseradish Peroxidase (HRP) - liquid						
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.01% Thiomersal						
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml						

Immunogen	PAX6 transcription factor linked to histidine tag.
RRID	AB_323592
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	Mouse anti Histidine tag antibody, clone AD1.1.10 recognizes proteins and peptides containing the motif 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 <u>de Vooght <i>et al.</i></u> 2012) cell lines.
	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.
	This antibody is routinely tested in Western blotting on histidine tagged recombinant proteins and reacts against all histidine-tagged proteins so far tested.
References	 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. 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. Hoffmann, S.C. <i>et al.</i> (2007) Identification of CLEC12B, an inhibitory receptor on myeloid cells. J Biol Chem. 282 (31): 22370-5. 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. 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. Wrighton, K.H. <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 Saccharomyces cerevisiae. J Biol Chem. 286: 25027-38. 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. 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. Gunnarsen, K.S. <i>et al.</i> (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. <u>Mol Immunol. 45: 2570-80.</u>
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. <u>Microb Cell Fact. 11: 23.</u>

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. <u>J Biol Chem. 279 (50): 51965-72.</u>

14. Than, N.G. *et al.* (2014) Evolutionary origins of the placental expression of chromosome 19 cluster galectins and their complex dysregulation in preeclampsia. <u>Placenta. 35: 855-65.</u>

 15. Elders RC *et al.* (2014) Recombinant canine IgE Fc and an IgE Fc-TRAIL fusion protein bind to neoplastic canine mast cells. <u>Vet Immunol Immunopathol. 159 (1-2): 29-40.</u>
 16. Chin, S.E. *et al.* (2015) Isolation of high-affinity, neutralizing anti-idiotype antibodies by phage and ribosome display for application in immunogenicity and pharmacokinetic analyses. <u>J Immunol Methods. 416: 49-58.</u>

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. <u>Nat Commun. 7: 10200.</u>

Borg M *et al.* (2014) A novel interaction between Rab7b and actomyosin reveals a dual role in intracellular transport and cell migration. <u>J Cell Sci. 127 (Pt 22): 4927-39.</u>
 De Meyer, T. *et al.* (2015) Comparison of VHH-Fc antibody production in Arabidopsis thaliana, Nicotiana benthamiana and Pichia pastoris. <u>Plant Biotechnol J. 13 (7): 938-47.</u>
 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. <u>J Neuroimmunol. 303: 1-12.</u>

23. Bertucci, A. *et al.* (2011) A new coral carbonic anhydrase in *Stylophora pistillata*. <u>Mar</u> <u>Biotechnol (NY). 13 (5): 992-1002.</u>

24. Liu, C.C. *et al.* (2016) The Fimbrial Protein is a Virulence Factor and Potential Vaccine Antigen of *Avibacterium paragallinarum*. <u>Avian Dis. 60 (3): 649-55.</u>

25. Boujon, C.L. *et al.* (2017) Development and validation of an immunohistochemistry procedure for the detection of a neurotropic bovine astrovirus. <u>J Virol Methods. 239:</u> <u>26-33.</u>

Cartwright, S.P. *et al.* (2017) Rapid expression and purification of the hepatitis delta virus antigen using the methylotropic yeast *Pichia pastoris*. <u>BMC Res Notes. 10 (1): 340.</u>
 Thanongsaksrikul, J. *et al.* (2018) Identification and production of mouse scFv to specific epitope of enterovirus-71 virion protein-2 (VP2). <u>Arch Virol. 163 (5): 1141-1152.</u>
 Gunnarsen, K.S. *et al.* (2018) Soluble T-cell receptor design influences functional yield in an E. coli chaperone-assisted expression system. <u>PLoS One. 13 (4): e0195868.</u>
 Ascione, A. *et al.* (2019) Development of a novel human phage display-derived anti-LAG3 scFv antibody targeting CD8⁺ T lymphocyte exhaustion. <u>BMC Biotechnol. 19 (1): 67.</u>

	 30. Zoccola, D. <i>et al.</i> (2017) Structural and functional analysis of coral Hypoxia Inducible Factor. <u>PLoS One. 12 (11): e0186262</u>. 31. Kimura, K. <i>et al.</i> (2021) Overexpression of human BAG3^{P209L} in mice causes restrictive cardiomyopathy. <u>Nat Commun. 12 (1): 3575</u>. 32. Dongdem, J.T. <i>et al.</i> (2021) Modification of small ubiquitin-related modifier 2 (SUMO2) by phosphoubiquitin in HEK293T cells. <u>Proteomics. 21 (15): e2000234</u>. 33. Chuang, H.C. <i>et al.</i> (2021) Effect of cell-permeable grouper Manganese Superoxide Dismutase on environmental stress in fish. <u>Protein Expr Purif. 187: 105951</u>. 34. Cheng, C.M. <i>et al.</i> (2021) Heterologous expression of bacterial CotA-laccase, characterization and its application for biodegradation of malachite green. <u>Bioresour</u> <u>Technol. 340: 125708</u>. 35. De Vooght, L. <i>et al.</i> (2022) Targeting the tsetse-trypanosome interplay using genetically engineered <i>Sodalis glossinidius.</i>. <u>PLoS Pathog. 18 (3): e1010376</u>. 36. Minami, S.A. <i>et al.</i> (2022) Production of novel SARS-CoV-2 Spike truncations in Chinese hamster ovary cells leads to high expression and binding to antibodies <u>Biotechnot</u> J. Jun 3 [Epub ahead of print] 		
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.		
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 #10094 available at: https://www.bio-rad-antibodies.com/SDS/MCA1396P 10094		
Regulatory	For research purposes only		

Related Products

Recommended Useful Reagents

AbGUARD® HRP STABILIZER PLUS (BUF052A) AbGUARD® HRP STABILIZER PLUS (BUF052B) AbGUARD® HRP STABILIZER PLUS (BUF052C) TMB CORE (BUF056A) TMB CORE+ (BUF062A) TMB SIGNAL+ (BUF054A)

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