

## Datasheet: MCA1396D550

**BATCH NUMBER 152521**

<b>Description:</b>	MOUSE ANTI HISTIDINE TAG:DyLight®550
<b>Specificity:</b>	HISTIDINE TAG
<b>Format:</b>	DyLight®550
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AD1.1.10
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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 [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			
Western Blotting	▪			
Immunofluorescence	▪			1/50 - 1/200

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.

<b>Target Species</b>	Synthetic Peptide		
<b>Product Form</b>	Purified IgG conjugated to DyLight®550 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	DyLight®550	562	576
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )		
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml		

<b>Immunogen</b>	PAX6 transcription factor linked to histidine tag.
<b>Fusion Partners</b>	Spleen cells from immunised Balb/c mice were fused with cells of the mouse NS1 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Histidine tag antibody, clone AD1.1.10</b> recognizes proteins and peptides containing the motif H-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 <a href="#">de Vooght et al. 2012</a>) 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>
<b>References</b>	<ol style="list-style-type: none"> <li>1. Els Conrath, K. <i>et al.</i> (2001) Camel single-domain antibodies as modular building units in bispecific and bivalent antibody constructs. <a href="#">J Biol Chem. 276 (10): 7346-50.</a></li> <li>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 F<sub>1</sub> mice. <a href="#">Immunol. 103: 301-309.</a></li> <li>3. Hoffmann, S.C. <i>et al.</i> (2007) Identification of CLEC12B, an inhibitory receptor on myeloid cells. <a href="#">J Biol Chem. 282 (31): 22370-5.</a></li> <li>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. <a href="#">BMC Immunol. 8: 4.</a></li> <li>5. Bahi, A. &amp; Dreyer, J.L. (2008) Overexpression of plasminogen activators in the nucleus accumbens enhances cocaine-, amphetamine- and morphine-induced reward and behavioral sensitization. <a href="#">Genes Brain Behav. 7 (2): 244-56.</a></li> <li>6. Wrighton, K.H. <i>et al.</i> (2009) Transforming Growth Factor {beta} Can Stimulate Smad1 Phosphorylation Independently of Bone Morphogenic Protein Receptors. <a href="#">J Biol Chem. 284 (15): 9755-63.</a></li> <li>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>. <a href="#">J Biol Chem. 286: 25027-38.</a></li> <li>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. <a href="#">PLoS One. 5: e10176.</a></li> <li>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. <a href="#">Neuropsychopharmacology. 33: 2726-34.</a></li> <li>10. Gunnarsen, K.S. <i>et al.</i> (2010) Periplasmic expression of soluble single chain T cell receptors is rescued by the chaperone FkpA. <a href="#">BMC Biotechnol. 10: 8.</a></li> <li>11. Hwang, H.Y. <i>et al.</i> (2008) Highly specific inhibition of C1q globular-head binding to human IgG: a novel approach to control and regulate the classical complement pathway</li> </ol>

- using an engineered single chain antibody variable fragment. [Mol Immunol. 45: 2570-80.](#)
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**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.

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**Guarantee** 12 months from date of despatch

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**Acknowledgements** DyLight® is a trademark of Thermo Fisher Scientific Inc. and its subsidiaries. His-tag is a registered trademark of EMD Biosciences.

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1396D550>  
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**Regulatory** For research purposes only

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