

## Datasheet: MCA2051

**BATCH NUMBER 161363**

<b>Description:</b>	MOUSE ANTI HUNTINGTIN
<b>Specificity:</b>	HUNTINGTIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	HDC8A4
<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			▪	
Immunohistology - Frozen (1)	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			

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

**(1) Increased cytoplasmic staining, relative to nuclear, has been reported using formaldehyde as a fixative compared with acetone/methanol, see Wilkinson *et al.***

### Species Cross Reactivity

Reacts with: Mouse, Rabbit, Human

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - liquid

### Preparation

Purified IgG prepared by affinity chromatography on Protein G.

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Recombinant protein corresponding to amino acids 2703 - 2911 of huntingtin.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P42858</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3064</a>    HTT    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	HD, IT15
<b>RRID</b>	AB_2123261
<b>Specificity</b>	<p><b>Mouse anti Huntingtin antibody, clone HDC8A4</b> reacts with an epitope corresponding to the HDC region (2703 - 2911 amino acids) of the huntingtin protein.</p> <p>Mouse anti Huntingtin antibody, clone HDC8A4 detects a ~350 kDa band on western blots but also detects smaller degradation products of huntingtin. Clone HDC8A4 recognizes both denatured and native huntingtin in human brain.</p> <p>The combined use of Mouse anti Huntingtin antibody, clone HDC8A4 (<a href="#">MCA2051</a>) and HDB4E10 (<a href="#">MCA2050</a>) demonstrate that huntingtin is enriched in neuronal cells in the brain.</p>
<b>References</b>	<ol style="list-style-type: none"> <li>1. Wilkinson, F. L. <i>et al.</i> (1999) Localization of rabbit huntingtin using a new panel of monoclonal antibodies. <a href="#">Molecular Brain Research. 69: 10-20.</a></li> <li>2. Yao Y <i>et al.</i> (2015) A striatal-enriched intronic GPCR modulates huntingtin levels and toxicity. <a href="#">Elife. 4: 4.</a></li> <li>3. Jones, A.L. (1999) The localization and interactions of huntingtin. <a href="#">Philos Trans R Soc Lond B Biol Sci. 354 (1386): 1021-7.</a></li> <li>4. Lazzeroni G <i>et al.</i> (2013) A phenotypic screening assay for modulators of huntingtin-induced transcriptional dysregulation. <a href="#">J Biomol Screen. 18 (9): 984-96.</a></li> <li>5. Li X <i>et al.</i> (2008) A function of huntingtin in guanine nucleotide exchange on Rab11. <a href="#">Neuroreport. 19 (16): 1643-7.</a></li> <li>6. McClory, H. <i>et al.</i> (2018) The COOH-terminal domain of huntingtin interacts with RhoGEF kalirin and modulates cell survival. <a href="#">Sci Rep. 8 (1): 8000.</a></li> </ol>
<b>Storage</b>	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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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2051">https://www.bio-rad-antibodies.com/SDS/MCA2051</a> 10040
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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