Datasheet: MCA2050

BATCH NUMBER 169269

Description:	MOUSE ANTI HUNTINGTIN
Specificity:	HUNTINGTIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	HDB4E10
Isotype:	IgG1
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 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 product 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 product 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, Human, Rabbit

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 A

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN_3)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant protein corresponding to amino acids 1844 - 2131 of huntingtin.
External Database Links	**UniProt:** P42858 Related reagents **Entrez Gene:** 3064 HTT Related reagents
Synonyms	HD, IT15
RRID	AB_322302
Specificity	**Mouse anti Huntingtin antibody, clone HDB4E10** reacts with an epitope corresponding to the HDB region (amino acids 1844 - 2131) of the huntingtin protein. Mouse anti Huntingtin antibody, clone HDB4E10 detects a ~350 kDa band on western blots but also detects smaller degradation products of huntingtin. The combined use of Mouse anti Huntingtin antibody, clones HDB4E10 (MCA2050) and HDC8A4 (MCA2051) demonstrate that huntingtin is enriched in neuronal cells in the brain (Jones 1999).
Histology Positive Control Tissue	Brain
References	1. Wilkinson, F. L. *et al*. (1999) Localization of rabbit huntingtin using a new panel of monoclonal antibodies. Molecular Brain Research. 69: 10-20. 2. Jones, A.L. (1999) The localization and interactions of huntingtin. Philos Trans R Soc Lond B Biol Sci. 354 (1386): 1021-7. 3. Tao, T. & Tartakoff, A.M. (2001) Nuclear relocation of normal huntingtin. Traffic. 2 (6): 385-94. 4. Shirasaki, D.I. *et al.* (2012) Network organization of the huntingtin proteomic interactome in mammalian brain. Neuron. 75 (1): 41-57. 5. Massai, L. *et al.* (2013) Development of an ELISA assay for the quantification of soluble huntingtin in human blood cells. BMC Biochem. 14: 34. 6. Yao Y *et al.* (2015) A striatal-enriched intronic GPCR modulates huntingtin levels and toxicity. Elife. 4: 4. 7. Ni, C.L. *et al.* (2016) Polyglutamine Tract Expansion Increases S-Nitrosylation of Huntingtin and Ataxin-1. PLoS One. 11 (9): e0163359. 8. Caron, N.S. *et al.* (2021) Mutant Huntingtin Is Cleared from the Brain via Active

Mechanisms in Huntington Disease. J Neurosci. 41 (4): 780-96.
9. Fodale, V. *et al.* (2020) Analysis of mutant and total huntingtin expression in Huntington's disease murine models. Sci Rep. 10 (1): 22137.

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
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2050
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M429263:240404'

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