Datasheet: MCA1148T BATCH NUMBER 1705

| Description: | MOUSE ANTI HUMAN CD71 |
|---------------|-----------------------|
| Specificity: | CD71 |
| Other names: | TRANSFERRIN RECEPTOR |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | DF1513 |
| Isotype: | lgG1 |
| Quantity: | 25 µg |
| | |

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-rad-antibodies.com/protocols</u>.

| pecies Cross Reacts with: Rhesus Monkey, Mustelid, Ferret eactivity 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. | | | 0010. | | | |
|--|-----------------------------|--|------------------------|----------------------------|---|-----------------------|
| Immunohistology - Frozen • Immunohistology - Paraffin • ELISA • Immunoprecipitation • Western Blotting • Immunofluorescence • 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. arget Species Human pecies Cross Reacts with: Rhesus Monkey, Mustelid, Ferret 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. | | | Yes | No | Not Determined | Suggested Dilution |
| Immunohistology - Paraffin • ELISA • Immunoprecipitation • Western Blotting • Immunofluorescence • 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. arget Species Human pecies Cross Reacts with: Rhesus Monkey, Mustelid, Ferret 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. | | Flow Cytometry | | | | 1/10 - 1/25 |
| ELISA • Immunoprecipitation • Western Blotting • Immunofluorescence • 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. arget Species Human pecies Cross Reacts with: Rhesus Monkey, Mustelid, Ferret 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. | | Immunohistology - Frozen | | - | | |
| Immunoprecipitation • Western Blotting • Immunofluorescence • 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. arget Species Human pecies Cross eactivity Reacts with: Rhesus Monkey, Mustelid, Ferret 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. | | Immunohistology - Paraffin | | | | |
| Western Blotting • Immunofluorescence • 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. arget Species Human pecies Cross Reacts with: Rhesus Monkey, Mustelid, Ferret 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. | | ELISA | | | | |
| Immunofluorescence • 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. arget Species Human pecies Cross Reacts with: Rhesus Monkey, Mustelid, Ferret 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. | | Immunoprecipitation | | | | |
| 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. arget Species Human pecies Cross eactivity Reacts with: Rhesus Monkey, Mustelid, Ferret 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. | | Western Blotting | | | | |
| 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. arget Species Human pecies Cross Reacts with: Rhesus Monkey, Mustelid, Ferret 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. | | Immunofluorescence | | | | |
| a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.arget SpeciesHumanpecies Cross eactivityReacts with: Rhesus Monkey, Mustelid, Ferret 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. | | Where this antibody has | not been | tested for | use in a particular teo | chnique this does not |
| pecies Cross Reacts with: Rhesus Monkey, Mustelid, Ferret eactivity 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. | | a guide only. It is recomm | nended th | nat the use | er titrates the antibody | |
| eactivity 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. | Target Species | Human | | | | |
| roduct Form Purified IgG - liquid | Species Cross Reactivity | N.B. Antibody reactivity a reactivity is derived from personal communications | and worki testing w | ng conditi ithin our la | ons may vary betweer aboratories, peer-revie | wed publications or |
| | Product Form | Purified IgG - liquid | | | | |

| Preparation | Purified IgG prepared by affinity chromatography on Protein A 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 | KGI cell line. |
| External Database Links | UniProt: <u>P02786</u> <u>Related reagents</u> |
| | Entrez Gene: |
| | 7037 TFRC Related reagents |
| RRID | AB_2255822 |
| Fusion Partners | Spleen cells from immunized BALB/c mice were fused with cells of the mouse NSI myeloma cell line. |
| Specificity | Mouse anti Human CD71 antibody, clone DF1513 recognizes the human CD71 cell surface antigen, a ~190 kDa homodimeric glycoprotein expressed by proliferating cells. CD71 is also known as the transferrin receptor. Mutation of the TFRC gene has been implicated in the development of Immunodeficiency 46 (IMD46) a combined immunodeficiency characterized by early onset chronic diarrhea, recurrent infections and intermittent neutropenia and thrombocytopenia (Jabara <i>et al.</i> 2016) |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul. |
| References | Sopper, S. <i>et al.</i> (1997) Lymphocyte subsets and expression of differentiation markers in blood and lymphoid organs of rhesus monkeys. <u>Cytometry. 29 (4): 351-62.</u> Martel, C.J. & Aasted, B. (2009) Characterization of antibodies against ferret immunoglobulins, cytokines and CD markers. <u>Vet Immunol Immunopathol. 132:109-15.</u> Meng, J. <i>et al.</i> (2011) Contribution of human muscle-derived cells to skeletal muscle regeneration in dystrophic host mice. <u>PLoS One. 6(3):e17454.</u> Stockwin, L.H. <i>et al.</i> (2009) Artemisinin dimer anticancer activity correlates with heme-catalyzed reactive oxygen species generation and endoplasmic reticulum stress induction. <u>Int J Cancer. 125: 1266-75.</u> Janes, P.W. <i>et al.</i> (1999) Aggregation of lipid rafts accompanies signaling via the T cell antigen receptor. <u>J Cell Biol. 147: 447-61.</u> Makoveichuk, E. <i>et al.</i> (2012) Inactivation of lipoprotein lipase occurs on the surface of THP-1 macrophages where oligomers of angiopoietin-like protein 4 are formed. <u>Biochem</u> |

| | Biophys Res Commun. 425:138-43. 7. Procaccini, C. <i>et al.</i> (2012) Leptin-induced mTOR activation defines a specific molecular and transcriptional signature controlling CD4+ effector T cell responses. J Immunol. 189: 2941-53. 8. Weissgerber, P. <i>et al.</i> (2003) Investigation of mechanisms involved in phagocytosis of Legionella pneumophila by human cells. FEMS Microbiol Lett. 219 (2): 173-9. 9. Trakarnsanga, K. <i>et al.</i> (2017) An immortalized adult human erythroid line facilitates sustainable and scalable generation of functional red cells. Nat Commun. 8: 14750. | | | |
|----------------------------------|---|-----|--|--|
| 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 repear as this may denature the antibody. Should this product contain recommend microcentrifugation before use. | • • | | |
| 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/MCA1148T 10040 | | | |
| Regulatory | For research purposes only | | | |

Related Products

Recommended Secondary Antibodies

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

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

| North & South | Tel: +1 800 265 7376 | Worldwide | Tel: +44 (0)1865 852 700 | Europe | Tel: +49 (0) 89 8090 95 21 |
|---------------|----------------------------------|-----------|---------------------------------|--------|--------------------------------------|
| America | Fax: +1 919 878 3751 | | Fax: +44 (0)1865 852 739 | | Fax: +49 (0) 89 8090 95 50 |
| | Email: antibody_sales_us@bio-rac | d.com | Email: antibody_sales_uk@bio-ra | id.com | Email: antibody_sales_de@bio-rad.com |

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M364852:200529'

© 2024 Bio-Rad Laboratories Inc | Legal | Imprint