

Datasheet: MCA2884

BATCH NUMBER 165599

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| Description: | MOUSE ANTI HUMAN H-Ras |
| Specificity: | H-Ras |
| Other names: | p21Ras |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | H-Ras-03 |
| 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 | | | ▪ | |
| Immunohistology - Paraffin | | | ▪ | |
| ELISA | ▪ | | | |
| Immunoprecipitation | | | ▪ | |
| Western Blotting | ▪ | | | 0.5 - 1.0ug/ml |

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. 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.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse, Rat

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.

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| Product Form | Purified IgG - liquid |
| Preparation | Purified IgG prepared by affinity chromatography on Protein A from ascites |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | <0.1% Sodium Azide (NaN ₃) |
| Approx. Protein Concentrations | IgG concentration 1.0mg/ml |
| Immunogen | Synthetic peptide corresponding to amino acids DIHQYREQIKRVKDSDDC of human H-Ras. |
| External Database Links | <p>UniProt: P01112 Related reagents</p> <p>Entrez Gene: 3265 HRAS Related reagents</p> |
| Synonyms | HRAS1 |
| RRID | AB_2121038 |
| Specificity | <p>Mouse anti Human H-Ras antibody, clone H-Ras-03 recognizes the human GTPase HRas also known as H-Ras, Transforming protein p21 or p21ras. H-Ras is a ubiquitously expressed lipid-anchored GTPase belonging to the Ras superfamily of small GTPases, which acts as a molecular signal transduction on/off switch on the inner surface of the plasma membrane and endomembranes (Milburn <i>et al.</i> 1990).</p> <p>H-Ras, N-Ras and K-Ras are highly related RAS genes which regulate pathways involved in cell differentiation, proliferation, adhesion, migration and apoptosis and are known proto-oncogenes. H-Ras is located within the peripheral plasma membrane and within endomembrane compartments including the ER and Golgi apparatus. In the ER H-Ras can be activated by the RasGRF family exchange factors RasGRF1 and RasGRF2, this process does not appear to happen within the Golgi (Arozarena <i>et al.</i> 2004). Mutations in the H-Ras gene are responsible for the rare condition known as Costello syndrome characterized by facial, cardiovascular and musculoskeletal abnormalities and mental retardation (Gripp <i>et al.</i> 2006).</p> <p>Mouse anti Human H-Ras, clone H-Ras-03 has been used for the detection of H-Ras in the MCF10A human epitheliod breast cancer cell line by Western blotting (Vuoriluoto <i>et al.</i> 2011).</p> |
| Western Blotting | MCA2884 detects a band of approximately 24kDa in HeLa, K567 and RAJI whole cell lysates under reducing conditions. |

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| References | 1. Vuoriluoto, K. <i>et al.</i> (2011) Vimentin regulates EMT induction by Slug and oncogenic H-Ras and migration by governing Axl expression in breast cancer. Oncogene. 30: 1436-48. |
| Further Reading | 1. Zheng, Y. & Quilliam, L.A. (2003) Activation of the Ras superfamily of small GTPases. Workshop on exchange factors. EMBO Rep. 4 (5): 463-8. |
| 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 | PrecisionAb is a trademark of Bio-Rad Laboratories |
| Health And Safety Information | Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2884 10040 |
| Regulatory | For research purposes only |

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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

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