# Datasheet: VMA00040

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| **Description:** | MOUSE ANTI H-RAS |
| **Specificity:** | H-RAS |
| **Other names:** | p21Ras |
| **Format:** | Purified |
| **Product Type:** | PrecisionAb™ Monoclonal |
| **Isotype:** | IgG1 |
| **Quantity:** | 100 µl |

## 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 |
|---|---|---|---|---|
| Western Blotting | ▪ | | | 1/1000 |

**PrecisionAb antibodies have been extensively validated for the western blot application.** The antibody has been validated at the suggested dilution. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependant on sample type.

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| **Target Species** | Human |
| **Species Cross Reactivity** | Reacts with: Rat, Mouse<br>**N.B.** Antibody reactivity and working conditions may vary between species. |
| **Product Form** | Purified IgG - liquid |
| **Preparation** | Mouse monoclonal antibody purified by affinity chromatography on Protein A from ascites |
| **Buffer Solution** | Phosphate buffered saline |
| **Preservative Stabilisers** | 0.09% Sodium Azide ($NaN_3$) |
| **Immunogen** | Synthetic peptide corresponding to amino acids DIHQYREQIKRVKDSDDC of human H-Ras |
| **External Database Links** | **UniProt:**<br>P01112 Related reagents<br><br>**Entrez Gene:**<br>3265 HRAS Related reagents |

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| **Synonyms** | HRAS1 |
| **Specificity** | **Mouse anti Human H-Ras antibody** recognizes the human GTPase H-Ras 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 *et al.* 1990).<br><br>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 *et al.* 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 *et al.* 2006).<br><br>Mouse anti Human H-Ras antibody has been used for the detection of H-Ras in the multiple human cell line lysates by western blotting, detecting a band of ~21 kDa under reducing conditions. |
| **Western Blotting** | Anti H-Ras antibody detects a band of approximately 21 kDa in HEK293 cell lysates. |
| **Instructions For Use** | Please refer to the PrecisionAb western blotting protocol. For additional information on secondary antibody dilution and exposure time see product web page. |
| **Storage** | Store undiluted at -20$^{o}$C, avoiding repeated freeze thaw cycles. |
| **Shelf Life** | As supplied, 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:<br>Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf |
| **Regulatory** | For research purposes only |

# Related Products

## Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) HRP

## Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)


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