

Datasheet: MCA2884

**BATCH NUMBER 148819**

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

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.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	<p>Reacts with: Mouse, Rat</p> <p><b>N.B.</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.</p>
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	Synthetic peptide corresponding to amino acids DIHQYREQIKRVKDSDDC of human H-Ras.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P01112</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3265</a>    HRAS    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	HRAS1
<b>RRID</b>	AB_2121038
<b>Specificity</b>	<p><b>Mouse anti Human H-Ras antibody, clone H-Ras-03</b> 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, <a href="#">N-Ras</a> and <a href="#">K-Ras</a> 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 withing the Golgi (<a href="#">Arozarena <i>et al.</i> 2004</a>). 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 (<a href="#">Gripp <i>et al.</i> 2006</a>).</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 (<a href="#">Vuoriluoto <i>et al.</i> 2011</a>).</p>
<b>Western Blotting</b>	MCA2884 detects a band of approximately 24kDa in HeLa, K567 and RAJI whole cell lysates under reducing conditions.
<b>References</b>	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. <a href="#">Oncogene. 30: 1436-48.</a>

**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.](#)

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**Storage** Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2884>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
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 (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

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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)  
'M367539:200529'

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