

Datasheet: MCA2884

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

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.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species.
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)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Synthetic peptide corresponding to amino acids DIHQYREQIKRVKDSDDC of human H-Ras.

**External Database
Links**

UniProt:

[P01112](#) [Related reagents](#)

Entrez Gene:

[3265](#) HRAS [Related reagents](#)

Synonyms

HRAS1

Specificity

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 *et al.* 1990](#)).

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](#)).

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 *et al.* 2011](#)).

Western Blotting

MCA2884 detects a band of approximately 24kDa in HeLa, K567 and RAJI whole cell lysates under reducing conditions.

References

1. Vuoriluoto, K. *et al.* (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

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.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
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 (STAR76...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@549](#),
[DyLight@649](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight@800](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Human Anti Mouse IgG1 (HCA036...) [HRP](#)

Recommended Negative Controls

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

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'M246051:140115'

Printed on 01 May 2018

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