

Datasheet: VMA00040KT

Description:	H-RAS ANTIBODY WITH LYSATE CONTROL
Specificity:	H-RAS
Other names:	p21Ras
Format:	Purified
Product Type:	PrecisionAb™ Monoclonal
Isotype:	IgG1
Quantity:	2 Westerns

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.

Target Species	Human
Species Cross Reactivity	Reacts with: Rat, Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	20µl 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	<p>UniProt: P01112 Related reagents</p> <p>Entrez Gene: 3265 HRAS Related reagents</p>

Synonyms	HRAS1
Specificity	<p>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).</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 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).</p> <p>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.</p>
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.
Lysate Composition	400µg HEK293 lysate lyophilized in RIPA buffer.
Lysate Reconstitution	<p>- If using DDT reconstitute the lyophilized lysate with 190µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.</p> <p>- If using BME reconstitute the lyophilized lysate with 180µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.</p> <p>Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.</p>
Storage	<p>Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.</p> <p>Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.</p>
Shelf Life	As supplied, 12 months from date of despatch.
Acknowledgements	PrecisionAb™ is a trademark of Bio-Rad Laboratories.
Health And Safety Information	<p>Material Safety Datasheet documentation #10040 #10561 available at:</p> <p>Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</p> <p>Lysate Material (10561): https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf</p>
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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