

Datasheet: VPA00481KT

Description:	RAP1A/B ANTIBODY WITH CONTROL LYSATE
Specificity:	RAP1A/B
Format:	Purified
Product Type:	PrecisionAb Polyclonal
Isotype:	Polyclonal IgG
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: Mouse 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.
Product Form	Purified IgG - liquid.
Preparation	20µl Rabbit polyclonal antibody purified by affinity chromatography.
Buffer Solution	Phosphate buffered saline.
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 2% Sucrose.
Immunogen	Synthetic peptide directed towards the N terminal region of human RAP1B

**External Database
Links**

UniProt:

[P61224](#) [Related reagents](#)

Entrez Gene:

[5908](#) RAP1B [Related reagents](#)

Specificity

Rabbit anti Human RAP1A / RAP1B antibody recognizes the Ras-related protein Rap-1a and Ras-related protein Rap-1b, also known as GTP-binding protein smg p21B, RAS-related protein RAP1B, Ras family small GTP binding protein RAP1B, small GTP binding protein.

RAP1A/RAP1B encodes members of the RAS-like small GTP-binding protein superfamily. Members of this family regulate multiple cellular processes including cell adhesion and growth and differentiation. The RAP1A protein regulates signaling pathways that affect cell proliferation and adhesion, and may play a role in tumor malignancy. The RAP1B protein localizes to cellular membranes and has been shown to regulate integrin-mediated cell signaling. RAP1B also plays a role in regulating outside-in signaling in platelets. Alternate splicing of RAP1A and RAP1B have been known to produce multiple transcript variants. Pseudogenes of RAP1A have been defined on chromosomes 14 and 17 (provided by RefSeq, May 2014). Pseudogenes of RAP1B are found on chromosomes 3, 5, 6 and 9. (provided by RefSeq, Oct 2011).

Rabbit anti Human RAP1A/ RAP1B antibody detects a band of 26 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting

Anti RAP1A/B detects a band of approximately 26 kDa in HEK293 cell lysates.

Instructions For Use

Please refer to the [PrecisionAb western blotting protocol](#).

Lysate Composition

400µg HEK293 lysate lyophilized in RIPA buffer.

Lysate Reconstitution

- If using DDT reconstitute the lyophilized lysate with 190µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.

- If using BME reconstitute the lyophilized lysate with 180µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.

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.

Storage

Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

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.

Guarantee

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 #10045 #10561 available at:
Antibody (10045): <https://www.bio-rad-antibodies.com/uploads/MSDS/10045.pdf>
Lysate Material (10561): <https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf>

Regulatory

For research purposes only.

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR208...) [HRP](#)

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