

## Datasheet: VPA00546KT

<b>Description:</b>	KPNA4 ANTIBODY WITH CONTROL LYSATE
<b>Specificity:</b>	KPNA4
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Polyclonal
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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 Goat polyclonal antibody purified by affinity chromatography.

#### Buffer Solution

TRIS buffered saline.

#### Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>)  
0.5% Bovine Serum Albumin.

#### Immunogen

Peptide sequence C-NSSANVPTEGFQF

**External Database  
Links**

**UniProt:**

[O00629](#)   [Related reagents](#)

**Entrez Gene:**

[3840](#)   KPNA4   [Related reagents](#)

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**Synonyms**

QIP1

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**Specificity**

**Goat anti Human KPNA4 antibody** recognizes KPNA4 also known as importin subunit alpha-3, importin alpha Q1, importin subunit alpha-4 or karyopherin subunit alpha-4.

The nuclear import of karyophilic proteins is directed by short amino acid sequences termed nuclear localization signals (NLSs). Karyopherins, or importins, are cytoplasmic proteins that recognize NLSs and dock NLS-containing proteins to the nuclear pore complex. The protein encoded by KPNA4 gene shares sequence similarity with *Xenopus* importin-alpha and *Saccharomyces cerevisiae* Srp1. This protein is found to interact with the NLSs of DNA helicase Q1 and SV40 T antigen (provided by RefSeq, Jul 2008).

Goat anti Human KPNA4 antibody detects a band of 58 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

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**Western Blotting**

Anti KPNA4 detects a band of approximately 58 kDa in NIH/3T3 cell lysates.

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**Instructions For Use**

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

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**Lysate Composition**

400µg NIH/3T3 lysate lyophilized in RIPA buffer.

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**Lysate Reconstitution**

- If using DDT reconstitute the lyophilized lysate with 190µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.

- If using BME reconstitute the lyophilized lysate with 180µl DI H<sub>2</sub>O, 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.

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**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.

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**Guarantee**

As supplied, 12 months from date of despatch.

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**Acknowledgements**

PrecisionAb™ is a trademark of Bio-Rad Laboratories.

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10058 #10561 available at:

Antibody (10058): <https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>

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

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**Regulatory**

For research purposes only.

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## Related Products

### Recommended Secondary Antibodies

Donkey Anti Sheep IgG (STAR88...) [HRP](#)

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Look out for updates on how to access your digital version at [bio-rad-antibodies.com](http://bio-rad-antibodies.com)

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