

## Datasheet: VPA00430KT

<b>Description:</b>	CORTACTIN ANTIBODY WITH CONTROL LYSATE
<b>Specificity:</b>	CORTACTIN
<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: Rat

**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<sub>3</sub>).

### Immunogen

KLH conjugated synthetic peptide corresponding to amino acid 273-302 of human

cortactin

---

**External Database****Links****UniProt:**[Q14247](#)[Related reagents](#)**Entrez Gene:**[2017](#)

CTTN

[Related reagents](#)

---

**Synonyms**

EMS1

---

**Specificity**

**Rabbit anti Human cortactin antibody** recognizes the Src substrate cortactin, also known as amplexin, ems1 sequence (mammary tumor and squamous cell carcinoma-associated (p80/85 src substrate) or oncogene EMS1.

CTTN is overexpressed in breast cancer and squamous cell carcinomas of the head and neck ([Patel et al. 1996](#)). Cortactin is localized in the cytoplasm and in areas of the cell-substratum contacts. CTTN has two roles: (1) regulating the interactions between components of adherens-type junctions and (2) organizing the cytoskeleton and cell adhesion structures of epithelia and carcinoma cells. During apoptosis, the encoded protein is degraded in a caspase dependent manner. The aberrant regulation of CTTN contributes to tumor cell invasion and metastasis ([Li et al. 2001](#)). Three splice variants that encode different isoforms have been identified for CTTN (provided by RefSeq, May 2010).

Rabbit anti Human cortactin antibody detects a band of 80 kDa and has been extensively validated for western blotting using whole cell lysates.

---

**Western Blotting**

Anti cortactin detects a band of approximately 80 kDa in A431 cell lysates.

---

**Instructions For Use**

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

---

**Lysate Composition**

400µg A431 lysate lyophilized in RIPA buffer.

---

**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.

---

**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 #10040 #10561 available at:  
Antibody (10040): <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.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](#)

**North & South  
America**

Tel: +1 800 265 7376

Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

From March 15, 2021, we will no longer supply printed datasheets with our products.  
Look out for updates on how to access your digital version at [bio-rad-antibodies.com](https://www.bio-rad-antibodies.com)

'M350997:190315'

**Printed on 10 Feb 2021**

---

© 2021 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)