

## Datasheet: VPA00511KT

<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: 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 WKASAGHAVSIA-C

**External Database  
Links**

**UniProt:**

[Q14247](#)    [Related reagents](#)

**Entrez Gene:**

[2017](#)    CTTN    [Related reagents](#)

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**Synonyms**

EMS1

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**Specificity**

**Goat anti Human cortactin antibody** recognizes the Src substrate cortactin, also known as amplexin or oncogene EMS1.

The CTTN gene is overexpressed in breast cancer and squamous cell carcinomas of the head and neck ([Patel et al. 1996](#)). The encoded protein 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 ([Chuma et al. 2004](#)). Three splice variants that encode different isoforms have been identified for CTTN (provided by RefSeq, May 2010).

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

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**Western Blotting**

Anti cortactin detects a band of approximately 80 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>

**Regulatory**

For research purposes only.

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## Related Products

### Recommended Secondary Antibodies

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

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'M351845:190318'

**Printed on 10 Feb 2021**

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