

Datasheet for ABIN2854674

**anti-Cortactin antibody (N-Term)**[Go to Product page](#)**1** Validation**5** Images

## Overview

Quantity:	100 µL
Target:	Cortactin (CTTN)
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cortactin antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

## Product Details

Immunogen:	Carrier-protein conjugated synthetic peptide encompassing a sequence within the N-terminus region of human Cortactin. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Rabbit Polyclonal antibody to Cortactin (src substrate cortactin) Cortactin antibody [N1], N-term
Purification:	Purified by antigen-affinity chromatography.
Grade:	KO Validated

## Target Details

Target:	Cortactin (CTTN)
Alternative Name:	cortactin ( <a href="#">CTTN Products</a> )
Background:	<p>This gene is overexpressed in breast cancer and squamous cell carcinomas of the head and neck. The encoded protein is localized in the cytoplasm and in areas of the cell-substratum contacts. This gene 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 this gene contributes to tumor cell invasion and metastasis. Two splice variants that encode different isoforms have been identified for this gene.</p> <p>Cellular Localization: Cytoplasm , cytoskeleton (By similarity) , Cell projection , lamellipodium (By similarity) , ruffle (By similarity)</p>
Molecular Weight:	62 kDa
Gene ID:	2017
UniProt:	<a href="#">Q14247</a>
Pathways:	<a href="#">MAPK Signaling</a>

## Application Details

Application Notes:	WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: NIH-3T3 , JC , PC-12 , mouse brain , rat brain , HeLa Validation: KO/KD
Restrictions:	For Research Use only

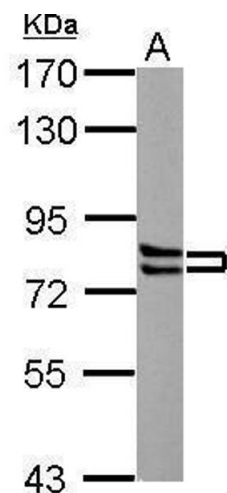
## Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	1XPBS ( pH 7), 20 % Glycerol, 0.025 % ProClin 300
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be

Handling

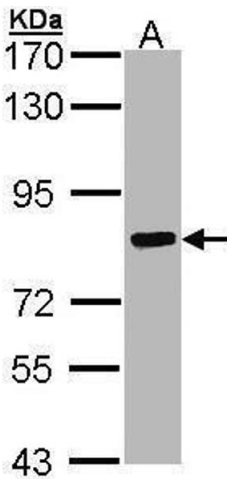
	handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Images



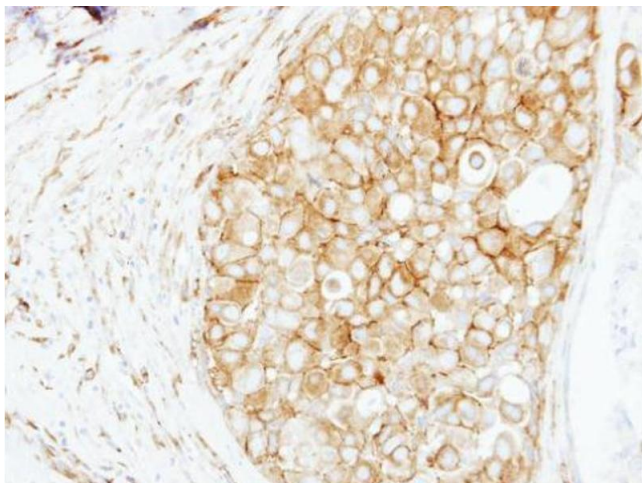
**Western Blotting**

**Image 1.** WB Image Sample (30 ug of whole cell lysate) A: PC-12 7.5% SDS PAGE antibody diluted at 1:3000



**Western Blotting**

**Image 2.** WB Image Sample (30 ug of whole cell lysate) A: Hep G2 , 7.5% SDS PAGE antibody diluted at 1:1000



#### Immunohistochemistry

**Image 3.** IHC-P Image Immunohistochemical analysis of paraffin-embedded human breast cancer, using Cortactin, antibody at 1:250 dilution.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN2854674.



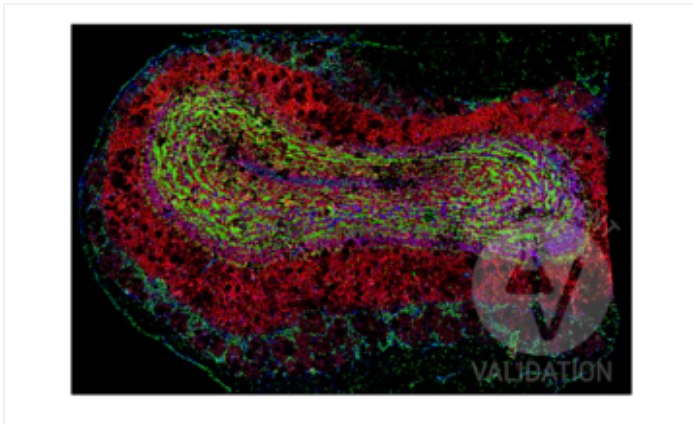
## Successfully validated (Multiplex Immunohistochemistry (mIHC))

by [Akoya Biosciences](#)

Report Number: 104334

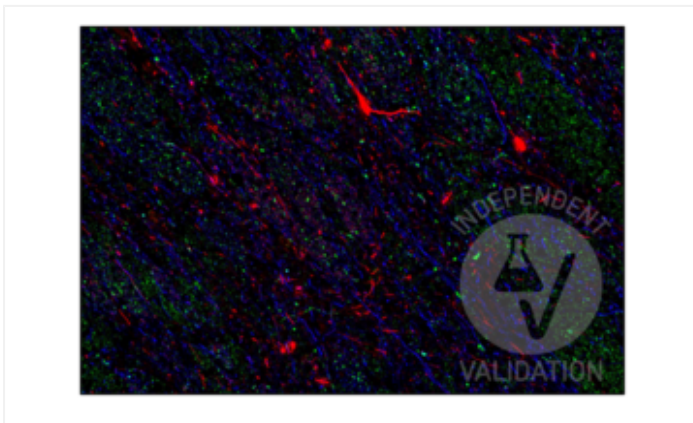
Date: Apr 20 2021

Target:	Cortactin
Lot Number:	39568
Method validated:	Multiplex Immunohistochemistry (mIHC)
Positive Control:	Fresh frozen mouse olfactory bulb
Negative Control:	Unlabeled control (mouse fresh frozen)
Notes:	Passed. The anti-cortactin antibody ABIN2854674 produces high degrees of labeling in granular and external plexiform layers of the mouse olfactory bulb. Additional labeling can be observed in the neuropil of individual glomeruli which is consistent with staining of synapses and neuronal processes.
Primary Antibody:	ABIN2854674
Protocol:	<ul style="list-style-type: none"> <li>Protocol details are described in the Akoya Biosciences CODEX® User Manual (see <a href="https://www.akoyabio.com/wp-content/uploads/2021/01/CODEX-User-Manual.pdf">https://www.akoyabio.com/wp-content/uploads/2021/01/CODEX-User-Manual.pdf</a>).</li> <li>Tissue preparation as outlined in the Akoya Biosciences CODEX® User Manual fresh-frozen tissue protocol.</li> <li>Conjugation of the anti-cortactin ABIN2854674 antibody to an oligo barcode used to bind oligo-conjugated fluorophore ATTO 550.</li> </ul>
Experimental Notes:	<ul style="list-style-type: none"> <li>No signal was detected in unlabeled specimens.</li> <li>Specific staining of Cortactin was also observed with human FFPE cortical tissue sections with both citrate antigen retrieval and EDTA antigen retrieval.</li> <li>Optimal staining and signal to noise ratios were obtained if tissue was pre-treated for autofluorescence removal (see <a href="https://www.akoyabio.com/wp-content/uploads/2020/07/Customer-Demonstrated-Protocol-Autofluorescence-Quenching-Mar2020.pdf">https://www.akoyabio.com/wp-content/uploads/2020/07/Customer-Demonstrated-Protocol-Autofluorescence-Quenching-Mar2020.pdf</a>).</li> <li></li> </ul>



**Validation image no. 1 for anti-Cortactin (CTTN) (N-Term) antibody (ABIN2854674)**

Murine fresh frozen coronal olfactory bulb section (Thickness = 5  $\mu$ m) labeled with anti-cortactin antibody ABIN2854674 (green; conjugated to fluorophore ATTO 550). Labeling is present in high degrees of labeling in granular and external plexiform layers with additional staining observed in the glomerular neuropil regions. Grin2b and doublecortin were labeled with ABIN5611338 (red; bound to fluorophore ATTO 550) and a doublecortin antibody (blue; bound to fluorophore AF 488).



**Validation image no. 2 for anti-Cortactin (CTTN) (N-Term) antibody (ABIN2854674)**

FFPE normal human cortex tissue section labeled with anti-cortactin antibody ABIN2854674 (green; bound to fluorophore ATTO 550) after EDTA antigen retrieval. MAP2 and neurofilament were additionally labeled with anti-MAP2 antibody ABIN125739 (red; bound to fluorophore ATTO 550) and anti-neurofilament antibody (blue; bound to fluorophore AF488).