Product Name: KD-Validated Cortactin Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb01638
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:2,000-1:10,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 61.6kDa

Antigen Information

Gene Name	CTTN
Alternative Names	CTTN; Cortactin; EMS1; Ems1 Sequence (Mammary Tumor And Squamous Cell Carcinoma-Associated (P80/85 Src Substrate); Src Substrate Cortactin; Oncogene EMS1; Amplaxin; Epididymis Secretory Sperm Binding Protein; 1110020L01Rik
Gene ID	2017.0
SwissProt ID	Q14247
Immunogen	A synthesized peptide derived from human Cortactin

Background

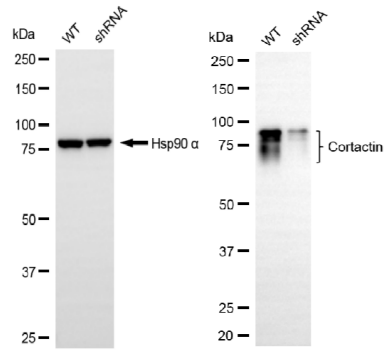
This gene is overexpressed in breast cancer and squamous cell carcinomas of the head and neck. The encoded protein is localized in the cytoplasm and in areas of the cell-substratum contacts. This gene has two roles: (1) regulating the interactions

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. Three splice variants that encode different isoforms have been identified for this gene. [provided by RefSeq, May 2010]

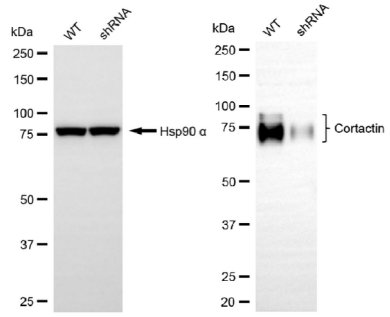
Research Area

Signal Transduction,Cancer

Image Data



Western blotting analysis using cortactin antibody (KVAb01638). Cortactin expression in wild-type (WT) and cortactin (CTTN) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with cortactin antibody (KVAb01638, 1:10,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



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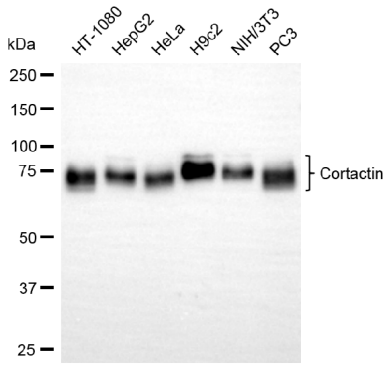
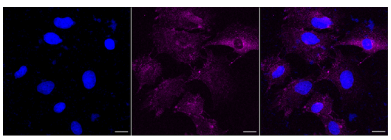
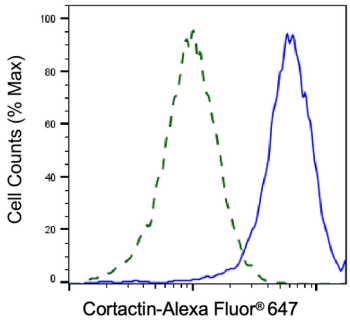


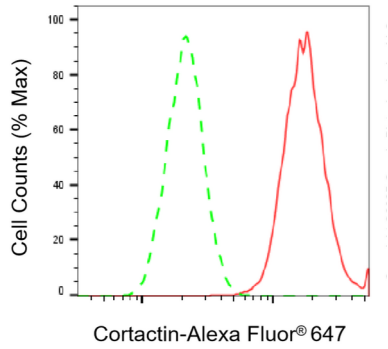
Western blotting analysis using cortactin antibody (KVAb01638). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with cortactin antibody (KVAb01638, 1:10,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of H9C2 cells with Cortactin antibody (KVAb01638, 1:1,000). Nuclei were stained blue with DAPI; Cortactin was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Validation of Cortactin knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Cortactin antibody (KVAb01638, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Cortactin expression in H9c2 cells using Cortactin antibody (KVAb01638, 1:2,000). Green, isotype control; red, Cortactin.