

Product Name: KD-Validated CAP1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01642**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human
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 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 51.9kDa

Antigen Information

Gene Name	CAP1
Alternative Names	CAP1; Cyclase Associated Actin Cytoskeleton Regulatory Protein 1; CAP; Adenylate Cyclase Associated Protein 1; Adenylyl Cyclase-Associated Protein 1; CAP, Adenylate Cyclase-Associated Protein 1 (Yeast); Testis Secretory Sperm-Binding Protein Li 218p; CAP, Adenylate Cyclase-Associated Protein 1; CAP1-PEN; CAP 1
Gene ID	10487.0
SwissProt ID	Q01518
Immunogen	A synthesized peptide derived from CAP1

Background

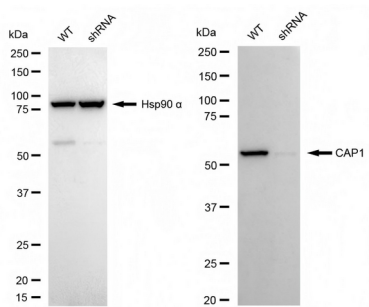
The protein encoded by this gene is related to the *S. cerevisiae* CAP protein, which is involved in the cyclic AMP pathway. The

human protein is able to interact with other molecules of the same protein, as well as with CAP2 and actin. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2016]

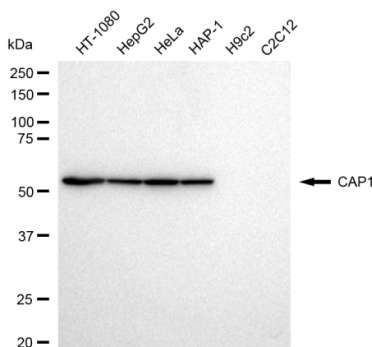
Research Area

Signal Transduction, Epigenetics and Nuclear Signaling

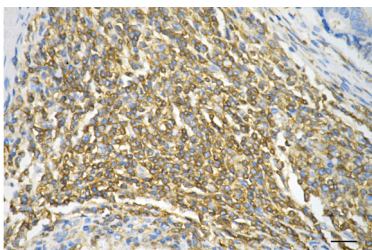
Image Data



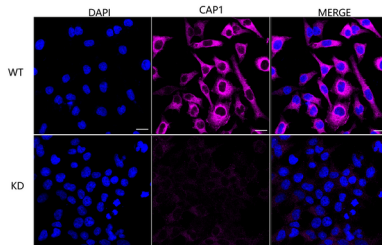
Western blotting analysis using CAP1 antibody (KVA01642). CAP1 expression in wild type (WT) and CAP1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with CAP1 antibody (KVA01642, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



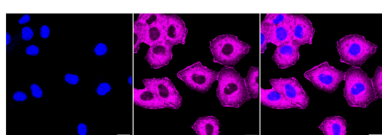
Western blotting analysis using CAP1 antibody (KVA01642). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with CAP1 antibody (KVA01642, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



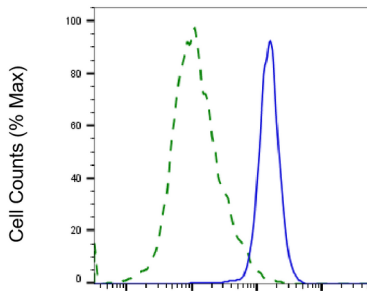
Immunohistochemistry was performed on paraffin-embedded human sigmoid colon carcinoma using CAP1 antibody (KVA01642, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HeLa cells using CAP1 antibody (KVA01642, 1:1,000). Top panel: wild-type (WT); Bottom panel: CAP1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; CAP1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.

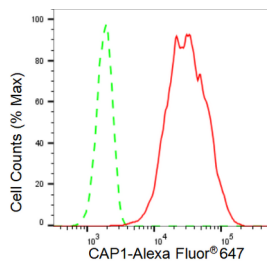


Immunocytochemical staining of HT-1080 cells with CAP1 antibody (KVA01642, 1:1,000). Nuclei were stained blue with DAPI; CAP1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



CAP1-Alexa Fluor® 647

Validation of CAP1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with CAP1 antibody (KVA01642, 1:2,000) and analyzed using CytoFLEX.



Flow cytometric analysis of CAP1 expression in HT-1080 cells using CAP1 antibody (KVA01642, 1:2,000). Green, isotype control; red, CAP1.