

Product Name: KD-Validated CDC42BPA Mouse Monoclonal Antibody**Catalog #: KVA01882**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse 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 1:400-1:2,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 197.3kDa

Antigen Information

Gene Name	CDC42BPA CDC42BPA; CDC42 Binding Protein Kinase Alpha; MRCKalpha; KIAA0451; MRCKA; PK428; Myotonic Dystrophy Protein Kinase-Like Alpha; Serine/Threonine-Protein Kinase MRCK Alpha; EC 2.7.11.1; FLJ23347; Ser-Thr Protein Kinase Related To The Myotonic Dystrophy Protein Kinase; Myotonic Dystrophy Kinase-Related CDC42-Binding Protein Kinase Alpha;
Alternative Names	Myotonic Dystrophy Kinase-Related CDC42-Binding Kinase Alpha; Myotonic Dystrophy Kinase-Related Cdc42-Binding Kinase; CDC42-Binding Protein Kinase Alpha (DMPK-Like); CDC42 Binding Protein Kinase Alpha (DMPK-Like); CDC42-Binding Protein Kinase Alpha; CDC42 Binding Protein Kinase Beta; Ser-Thr Protein Kinase PK428; DMPK-Like Alpha; MRCK Alpha; EC 2.7.11; MRCK
Gene ID	8476.0

SwissProt ID Q5VT25
Immunogen Recombinant protein of human CDC42BPA

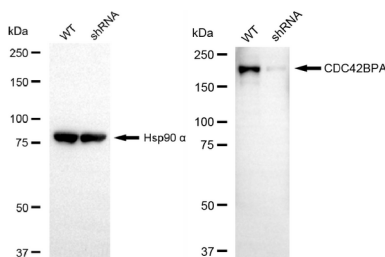
Background

The protein encoded by this gene is a member of the serine/threonine protein kinase family. This kinase contains multiple functional domains. Its kinase domain is highly similar to that of the myotonic dystrophy protein kinase (DMPK). This kinase also contains a Rac interactive binding (CRIB) domain, and has been shown to bind CDC42. It may function as a CDC42 downstream effector mediating CDC42 induced peripheral actin formation, and promoting cytoskeletal reorganization. Multiple alternatively spliced transcript variants have been described. [provided by RefSeq, Sep 2018]

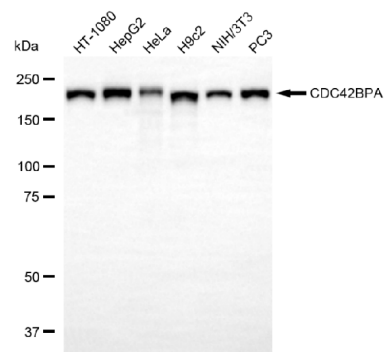
Research Area

Signal Transduction

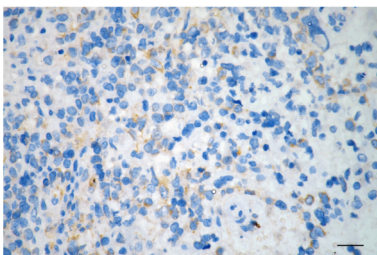
Image Data



Western blotting analysis using CDC42BPA antibody (KVA01882). CDC42BPA expression in wild-type (WT) and CDC42BPA shRNA knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with CDC42BPA antibody (KVA01882, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using CDC42BPA antibody (KVA01882). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with CDC42BPA antibody (KVA01882, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human glioblastoma using CDC42BPA antibody (KVA01882, 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.