

Product Name: KD-Validated Actin Beta Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01828

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,IHC-P
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 1:1,000-1:5,000; FC 1:200-1:2,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 41.7kDa

Antigen Information

Gene Name	ACTB ACTB; Actin Beta; Actin, Cytoplasmic 1; PS1TP5-Binding Protein 1; Beta Cytoskeletal Actin;
Alternative Names	I(2)-Actin; Beta-Actin; EC 3.6.4.-; PS1TP5BP1; B-Actin; BKRNS; BRWS1; CSMH; DDS1; THC8; BNS
Gene ID	60.0
SwissProt ID	P60709
Immunogen	Recombinant protein of human Beta-actin

Background

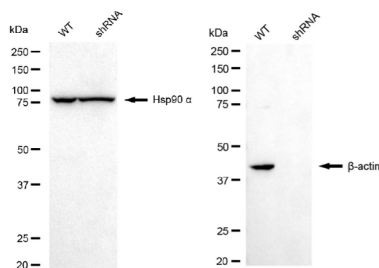
This gene encodes one of six different actin proteins. Actins are highly conserved proteins that are involved in cell motility, structure, integrity, and intercellular signaling. The encoded protein is a major constituent of the contractile apparatus and one

of the two nonmuscle cytoskeletal actins that are ubiquitously expressed. Mutations in this gene cause Baraitser-Winter syndrome 1, which is characterized by intellectual disability with a distinctive facial appearance in human patients. Numerous pseudogenes of this gene have been identified throughout the human genome. [provided by RefSeq, Aug 2017]

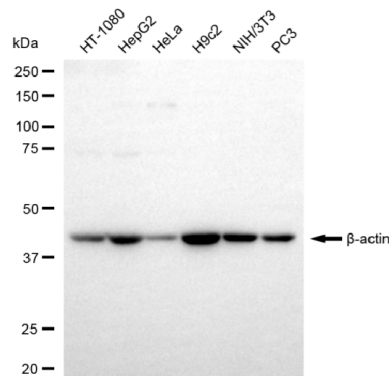
Research Area

Tags & Cell Markers, Signal Transduction

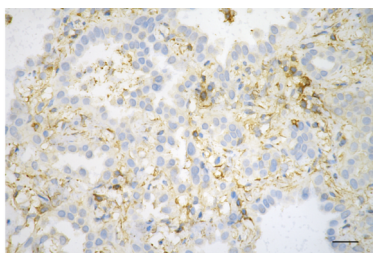
Image Data



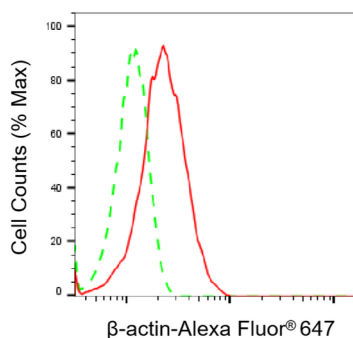
Western blotting analysis using β -actin antibody (KVA01828). β -actin expression in wild-type (WT) and ACTB shRNA knockdown (KD) HeLa cells with 20 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with β -actin antibody (KVA01828, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using beta actin antibody (KVA01828). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with beta actin antibody (KVA01828, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human lung adenocarcinoma using beta actin antibody (KVA01828, 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 $\times$ objective). Scale bar: 25 μ m.



Flow cytometric analysis of β -actin expression in HepG2 cells using β -actin antibody (KVA01828, 1:2,000). Green, isotype control; red, β -actin.