

Product Name: KD-Validated 14-3-3 Gamma Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01811

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 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 28.3kDa

Antigen Information

Gene Name	YWHAG YWHAG; Tyrosine 3-Monooxygenase/Tryptophan 5-Monooxygenase Activation Protein Gamma; 14-3-3GAMMA; PPP1R170; Tyrosine 3-Monooxygenase/Tryptophan 5-
Alternative Names	Monooxygenase Activation Protein, Gamma Polypeptide; Protein Phosphatase 1, Regulatory Subunit 170; Protein Kinase C Inhibitor Protein 1; 14-3-3 Protein Gamma; KCIP-1; 14-3-3 Gamma; 14-3-3γ; 14-3-3G; EIEE56; DEE56
Gene ID	7532.0
SwissProt ID	P61981
Immunogen	A synthesized peptide derived from human 14-3-3 gamma

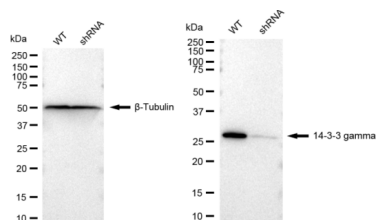
Background

This gene product belongs to the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. This highly conserved protein family is found in both plants and mammals, and this protein is 100% identical to the rat ortholog. It is induced by growth factors in human vascular smooth muscle cells, and is also highly expressed in skeletal and heart muscles, suggesting an important role for this protein in muscle tissue. It has been shown to interact with RAF1 and protein kinase C, proteins involved in various signal transduction pathways. [provided by RefSeq, Jul 2008]

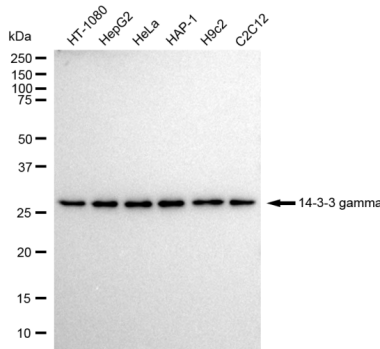
Research Area

Neuroscience, Signal Transduction, Stem Cells, Cancer

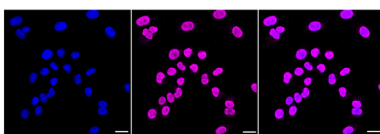
Image Data



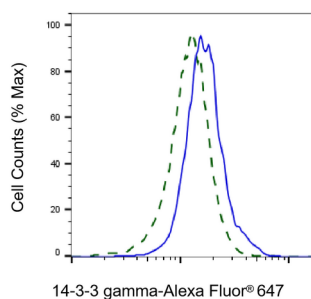
Western blotting analysis using 14-3-3 gamma antibody (KVA01811). 14-3-3 gamma expression in wild type (WT) and 14-3-3 gamma shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with 14-3-3 gamma antibody (KVA01811, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



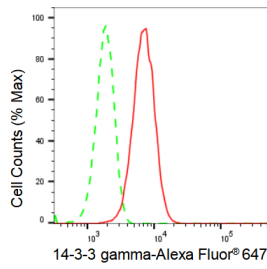
Western blotting analysis using 14-3-3 gamma antibody (KVA01811). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with 14-3-3 gamma antibody (KVA01811, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with 14-3-3 gamma antibody (KVA01811, 1:1,000). Nuclei were stained blue with DAPI; 14-3-3 gamma 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 14-3-3 gamma knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with 14-3-3 gamma antibody (KVA01811, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of 14-3-3 gamma expression in HepG2 cells using 14-3-3 gamma antibody (KVA01811, 1:2,000). Green, isotype control; red, 14-3-3 gamma.