

Product Name: KD-Validated QKI Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01209**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,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; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 37.7kDa

Antigen Information

Gene Name	QKI QKI; QKI, KH Domain Containing RNA Binding; QK3; KH Domain-Containing RNA-Binding Protein QKI; Hqkl; Hqk; Homolog Of Mouse Quaking QKI (KH Domain RNA Binding Protein);
Alternative Names	Quaking Homolog, KH Domain RNA Binding (Mouse); Quaking Homolog, KH Domain RNA Binding; QKI/LOC100132735 Fusion; RNA Binding Protein HQK; Protein Quaking; QK1; HKQ; QK
Gene ID	9444.0
SwissProt ID	Q96PU8
Immunogen	A synthesized peptide derived from human QK1

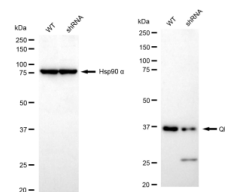
Background

The protein encoded by this gene is an RNA-binding protein that regulates pre-mRNA splicing, export of mRNAs from the nucleus, protein translation, and mRNA stability. The encoded protein is involved in myelination and oligodendrocyte differentiation and may play a role in schizophrenia. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014]

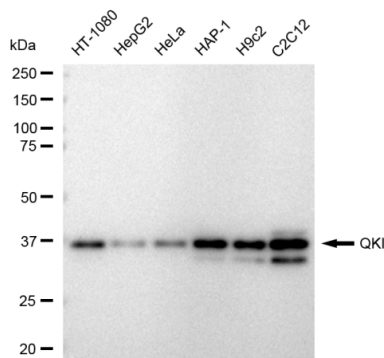
Research Area

Neuroscience, Epigenetics and Nuclear Signaling

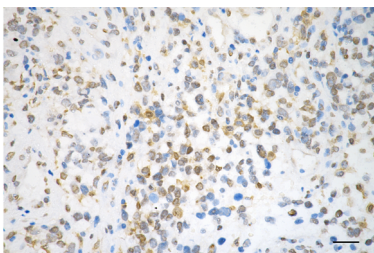
Image Data



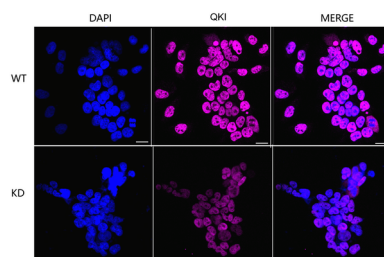
Western blotting analysis using QKI antibody (KVA01209). QKI expression in wild type (WT) and QKI shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with QKI antibody (KVA01209, 1:5,000) and HRP-conjugated goat anti rabbit secondary antibody (APS0635, 1:10,000) respectively.



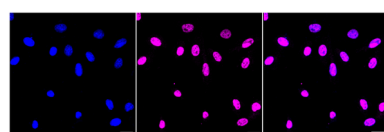
Western blotting analysis using QKI antibody (KVA01209). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with QKI antibody (KVA01209, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



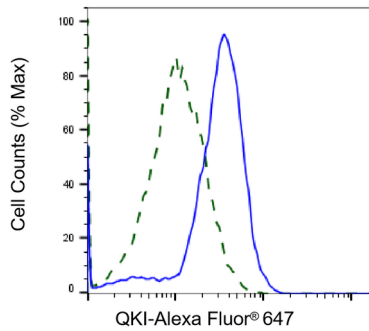
Immunohistochemistry was performed on paraffin-embedded human glioblastoma using QKI antibody (KVA01209, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



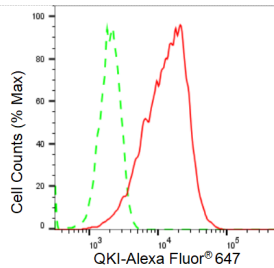
Immunocytochemical staining of HeLa cells using QKI antibody (KVA01209, 1:1,000). Top panel: wild-type (WT); Bottom panel: QKI shRNA knockdown (KD). Nuclei were stained blue with DAPI; QKI was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of C2C12 cells with QKI antibody (KVA01209, 1:1,000). Nuclei were stained blue with DAPI; QKI 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 QKI knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with QKI antibody (KVA01209, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of QKI expression in C2C12 cells using QKI antibody (KVA01209, 1:2,000). Green, isotype control; red, QKI.