

Store at
-20C
#86397**QKI Antibody**

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	38, 42	Rabbit	#Q96PU8	9444

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

QKI Antibody recognizes endogenous levels of total QKI protein. This antibody detects QKI-5 and other isoforms.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly202 of human QKI protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Quaking (QKI) is a member of the signal transduction and activator of RNA (STAR) protein family of RNA-binding proteins (1,2). Mutations in the mouse Qki locus results in impaired myelin formation resulting in tremors (3). QKI proteins exist as homodimers, and disruption of the dimerization process is lethal in mice (2). QKI exists in different isoforms that differ in their C-terminus, resulting in unique subcellular localizations (4). The nuclear isoform of QKI, QKI-5, is involved in regulation of alternative splicing of MAG mRNA, which encodes for a protein important for myelin sheath formation and maintenance (4,5). QKI has also been implicated in schizophrenia and oligodendrocyte differentiation (6). QKI can function as a tumor suppressor, as it is regulated by p53 to stabilize miRNAs that regulate TGF-β signaling (7).

Background References

1. Vernet, C. and Artzt, K. (1997) *Trends Genet* 13, 479-84.
2. Chen, T. and Richard, S. (1998) *Mol Cell Biol* 18, 4863-71.
3. SIDMAN, R.L. et al. (1964) *Science* 144, 309-11.
4. Wu, J. et al. (1999) *J Biol Chem* 274, 29202-10.
5. Wu, J.I. et al. (2002) *Proc Natl Acad Sci U S A* 99, 4233-8.
6. Aberg, K. et al. (2006) *Proc Natl Acad Sci U S A* 103, 7482-7.
7. Chen, A.J. et al. (2012) *Genes Dev* 26, 1459-72.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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