

Product Datasheet

QKI Antibody / Protein Quaking (orb2634782)

Catalog Number	orb2634782
Category	Antibodies
Description	<p>QKI, also known as HKQ, QK, QK3 or quaking, is a 341 amino acid protein that localizes to both the cytoplasm and the nucleus and contains one KH domain. Expressed in the frontal cortex of the brain, QKI functions as an RNA-binding protein that plays an important role in myelination and specifically binds to the RNA core sequence 5. Additionally, QKI regulates pre-mRNA splicing, and mRNA export and is involved in protecting and promoting the stability of select mRNAs. QKI may be methylated by PRMT1 and may also be phosphorylated at its C-terminus, an event that decreases QKI mRNA-binding affinity. Defects or deletions in the gene encoding QKI are associated with astrocytic tumors and may be involved in the pathogenesis of schizophrenia. Multiple isoforms of QKI exist due to alternative splicing events.</p>
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG2c
Conjugation	Unconjugated
Reactivity	Human
Buffer/Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin, 0.05% sodium azide
Purification	Protein A/G affinity
Immunogen	Recombinant full-length human protein was used as the immunogen for the QKI antibody.
UniProt ID	Q96PU8

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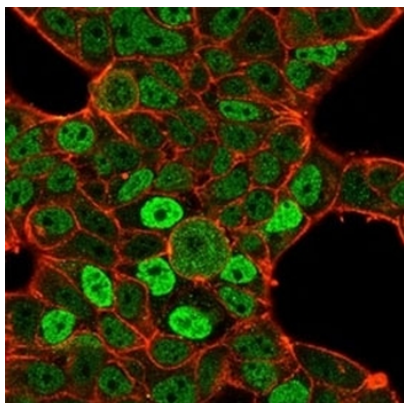
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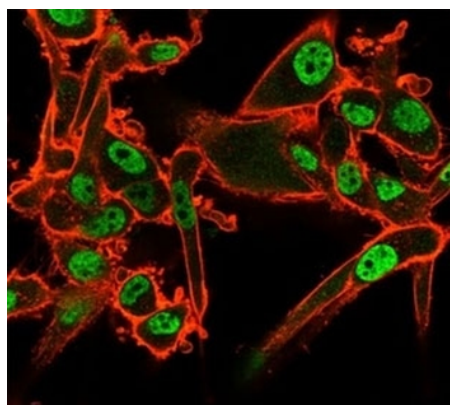
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Tested applications	ELISA, FACS, IF, WB
Dilution range	ELISA (concentration assay dependent), Flow cytometry: 1-2ug/million cells, Immunofluorescence: 1-2ug/ml, Western blot: 1-2ug/ml
Application notes	Optimal dilution of the QKI antibody should be determined by the researcher.
Antibody Type	Primary Antibody
Clone Number	PCRP-QKI-2F10
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Expiration Date	12 months from date of receipt.



Immunofluorescent staining of PFA-fixed human MCF7 cells using QKI antibody (green, clone PCRP-QKI-2F10) and phalloidin (red).



Immunofluorescent staining of PFA-fixed human U-87 MG cells using QKI antibody (green, clone PCRP-QKI-2F10) and phalloidin (red). Staining is localized to the nucleoplasm.

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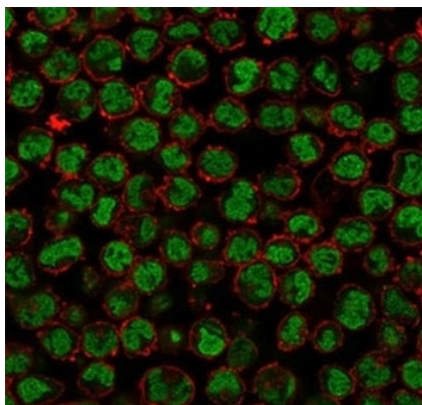
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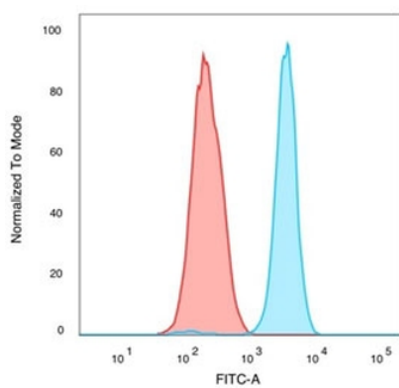
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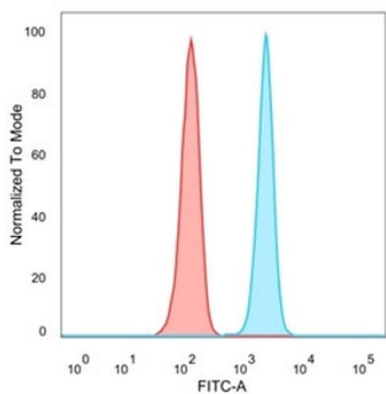
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Immunofluorescent staining of human K562 cells using QKI antibody (green, clone PCRP-QKI-2F10) and phalloidin (red).



FACS staining of PFA-fixed human K562 cells with QKI antibody (blue, clone PCRP-QKI-2F10) and isotype control (red).



FACS staining of PFA-fixed human HeLa cells with QKI antibody (blue, clone PCRP-QKI-2F10) and isotype control (red).

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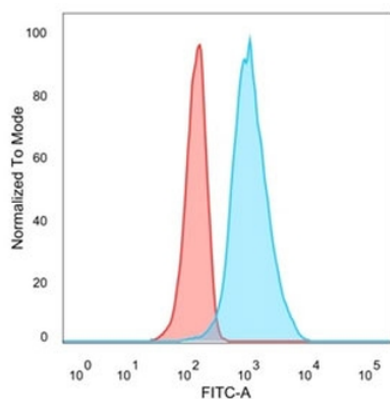
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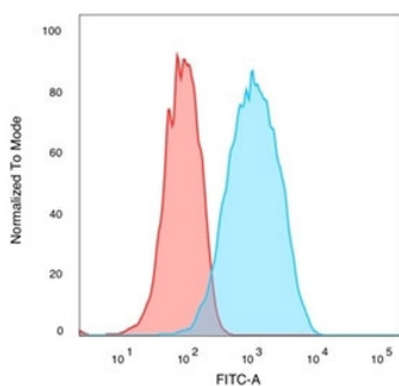
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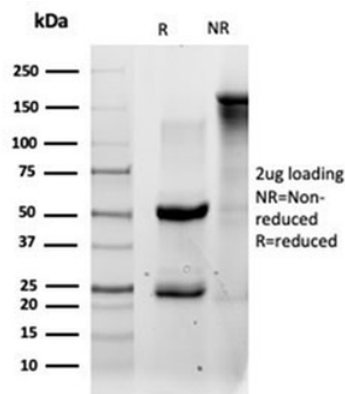
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FACS staining of PFA-fixed human U-87 MG cells with QKI antibody (blue, clone PCR-P-QKI-2F10), and isotype control (red).



FACS staining of PFA-fixed human MCF-7 cells with QKI antibody (blue, clone PCR-P-QKI-2F10), and isotype control (red).



SDS-PAGE analysis of purified, BSA-free QKI antibody (clone PCR-P-QKI-2F10) as confirmation of integrity and purity.

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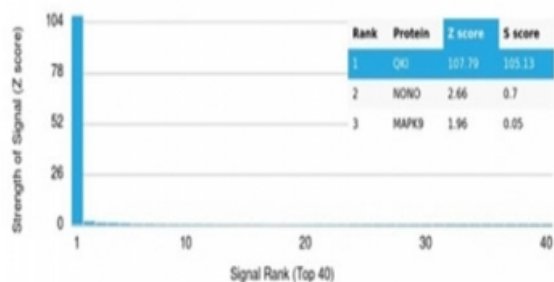
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Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using QKI antibody (clone PCR-P-QKI-2F10). These results demonstrate the foremost specificity of the PCR-P-QKI-2F10 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

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