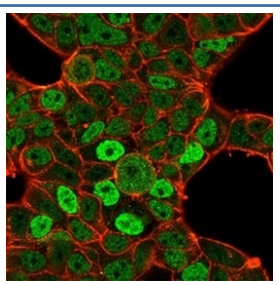
QKI Antibody / Protein Quaking [clone PCRP-QKI-2F10] (V9749)

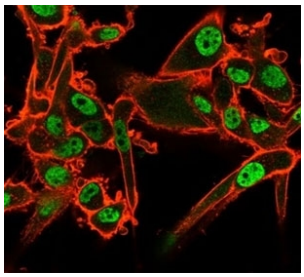
Catalog No.	Formulation	Size
V9749-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9749-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9749SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

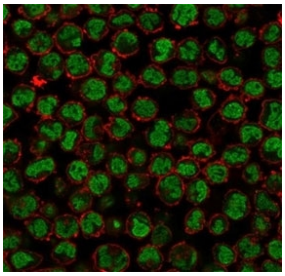
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2c
Clone Name	PCRP-QKI-2F10
Purity	Protein A/G affinity
UniProt	Q96PU8
Localization	Nucleus, Cytoplasm
Applications	ELISA (concentration assay dependent Flow cytometry: 1-2ug/million cells Immunofluorescence: 1-2ug/ml Western blot: 1-2ug/ml
Limitations	This QKI antibody is available for research use only.



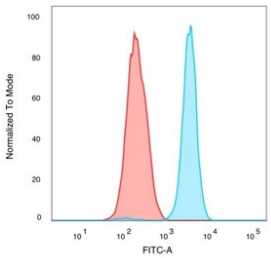
Immunofluorescent staining of PFA-fixed human MCF7 cells using QKI antibody (green, clone PCRP-QKI-2F10) and phalloidin (red).



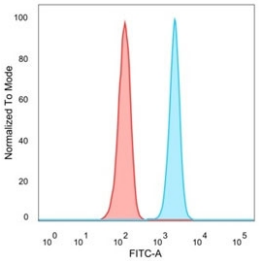
Immunofluorescent staining of PFA-fixed human U-87 MG cells using QKI antibody (green, clone PCRP-QKI-2F10) and phalloidin (red). Staining is localized to the nucleoplasm.



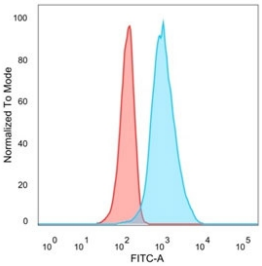
Immunofluorescent staining of human K562 cells using QKI antibody (green, clone PCRP-QKI-2F10) and phalloidin (red).



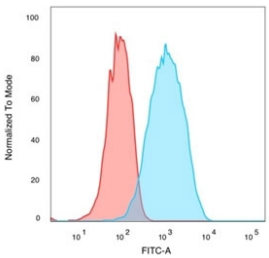
FACS staining of PFA-fixed human K562 cells with QKI antibody (blue, clone PCRP-QKI-2F10) and isotype control (red).



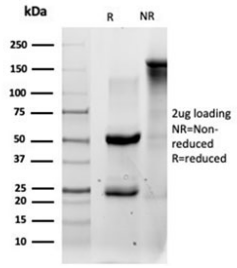
FACS staining of PFA-fixed human HeLa cells with QKI antibody (blue, clone PCRP-QKI-2F10) and isotype control (red).



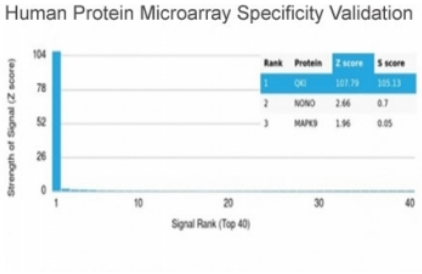
FACS staining of PFA-fixed human U-87 MG cells with QKI antibody (blue, clone PCRP-QKI-2F10), and isotype control (red).



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



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



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using QKI antibody (clone PCRP-QKI-2F10). These results demonstrate the foremost specificity of the PCRP-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.

Description

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 myelinization 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.

Application Notes

Optimal dilution of the QKI antibody should be determined by the researcher.

Immunogen

Recombinant full-length human protein was used as the immunogen for the QKI antibody.

Storage

Aliquot the QKI antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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