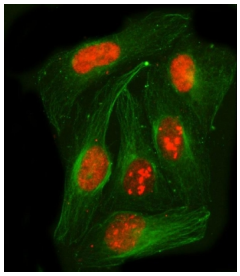
Paraspeckle component 1 Antibody / PSPC1 (RQ8334)

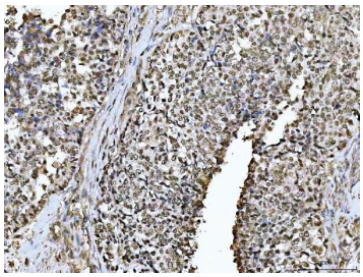
Catalog No.	Formulation	Size
RQ8334	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

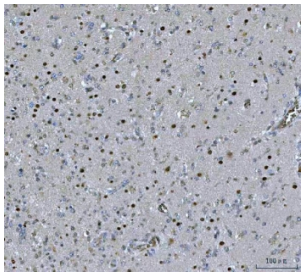
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q8WXF1
Localization	Nuclear
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This Paraspeckle component 1 antibody is available for research use only.



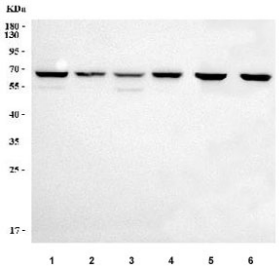
Immunofluorescent staining of FFPE human U-2 OS cells with Paraspeckle component 1 antibody (red) and Beta Tubulin mAb (green). HIER: steam section in pH6 citrate buffer for 20 min.



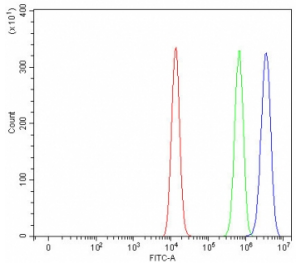
IHC staining of FFPE human ovarian serous adenocarcinoma tissue with Paraspeckle component 1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human glioblastoma tissue with Paraspeckle component 1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human 293T, 2) human HepG2, 3) human PC-3, 4) human U-2 OS, 5) rat testis and 6) mouse testis tissue lysate with Paraspeckle component 1 antibody. Predicted molecular weight ~59 kDa and ~46 kDa (two isoforms).



Flow cytometry testing of fixed and permeabilized human HEL cells with Paraspeckle component 1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Paraspeckle component 1 antibody.

Description

This gene encodes a nucleolar protein that localizes to punctate subnuclear structures that occur close to splicing speckles, known as paraspeckles. These paraspeckles are composed of RNA-protein structures that include a non-coding RNA, NEAT1/Men epsilon/beta, and the Drosophila Behavior Human Splicing family of proteins, which include the product of this gene and the P54NRB/NONO and PSF/SFPQ proteins. Paraspeckles may function in the control of gene expression via an RNA nuclear retention mechanism. The protein encoded by this gene is found in paraspeckles in transcriptionally active cells, but it localizes to unique cap structures at the nucleolar periphery when RNA polymerase II transcription is inhibited, or during telophase. Alternative splicing of this gene results in multiple transcript variants. A related pseudogene, which is also located on chromosome 13, has been identified.

Application Notes

Optimal dilution of the Paraspeckle component 1 antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (E96-Q489) was used as the immunogen for the Paraspeckle component 1 antibody.

Storage

After reconstitution, the Paraspeckle component 1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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