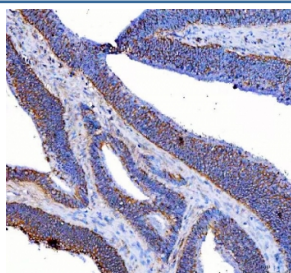


## RSPH3 Antibody / Radial spoke head protein 3 (RQ8424)

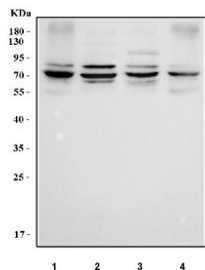
Catalog No.	Formulation	Size
RQ8424	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

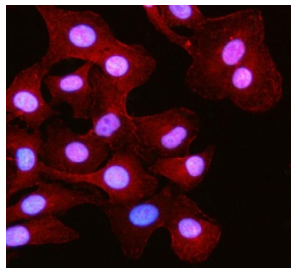
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose
<b>UniProt</b>	Q86UC2
<b>Localization</b>	Cytoplasm
<b>Applications</b>	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml ELISA : 0.1-0.5ug/ml
<b>Limitations</b>	This RSPH3 antibody is available for research use only.



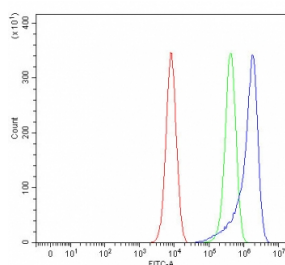
IHC staining of FFPE human colon cancer tissue with RSPH3 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) SiHa, 2) U-87 MG, 3) A431 and 4) HaCaT cell lysate with RSPH3 antibody. Predicted molecular weight ~64 kDa and ~53 kDa (two isoforms).



Immunofluorescent staining of FFPE human A549 cells with RSPH3 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of fixed and permeabilized human K562 cells with RSPH3 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= RSPH3 antibody.

## Description

Radial spoke head protein 3 homolog (RSPH3), also known as radial spoke head-like protein 2 (RSHL2), is a protein that in humans is encoded by the RSPH3 gene. The protein encoded by this gene acts as a protein kinase A anchoring protein. Mutations in this gene cause primary ciliary dyskinesia; a disorder characterized by defects of the axoneme in motile cilia and sperm flagella. The homolog of this gene was first identified in the blue-green algae *Chlamydomonas* as encoding a radial spoke protein that formed a structural component of motile cilia and flagella. Alternate splicing results in multiple transcript variants encoding distinct isoforms.

## Application Notes

Optimal dilution of the RSPH3 antibody should be determined by the researcher.

## Immunogen

An E.coli-derived human recombinant protein (Q31-H473) was used as the immunogen for the RSPH3 antibody.

## Storage

After reconstitution, the RSPH3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

