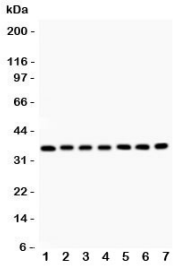
RACK1 Antibody (R31656)

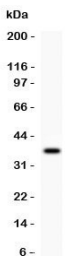
Catalog No.	Formulation	Size
R31656	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

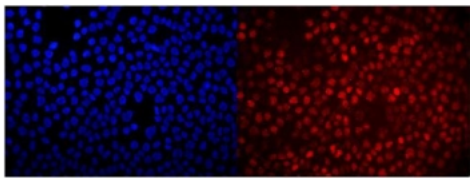
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	10399
Applications	Western blot: 0.5-1ug/ml Immunofluorescence (FFPE): 2-4ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This RACK1 antibody is available for research use only.



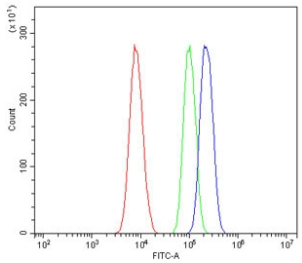
Western blot testing of RACK1 antibody and Lane 1: mouse liver; 2: rat spleen; 3: (m) spleen; 4: human SMMC-7721; 5: (h) HEPG2; 6: (m) HEPA; 7: (r) RH35 lysate. Predicted molecular weight: ~35 kDa.



Western blot testing of RACK1 antibody and recombinant human protein (0.5ng)



Immunofluorescent staining of FFPE human A431 cells with RACK1 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of human A431 cells with RACK1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= RACK1 antibody.

Description

Guanine nucleotide-binding protein subunit beta-2-like 1, also known as RACK1, is a 35kDa protein that in humans is encoded by the GNB2L1 gene. It is mapped to 5q35.3. It is a major component of translating ribosomes, which harbor significant amounts of PKC. This gene can provide a physical and functional link between PKC signaling and ribosome activation. GNB2L1/RACK1 is also a mediator of agonist-induced Ca(2+) release. Additionally, it is an essential component of an oxygen-independent mechanism for regulating HIF1A stability. Overexpression of RACK1 and PKC-alpha suppressed CLOCK-BMAL1 transcriptional activity, and it stimulated phosphorylation of BMAL1 by PKC-alpha in vitro.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the RACK1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 2-317) was used as the immunogen for this RACK1 antibody.

Storage

After reconstitution, the RACK1 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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