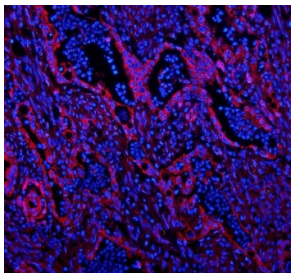
Caveolin-2 Antibody (R31584)

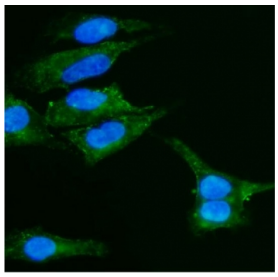
Catalog No.	Formulation	Size
R31584	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

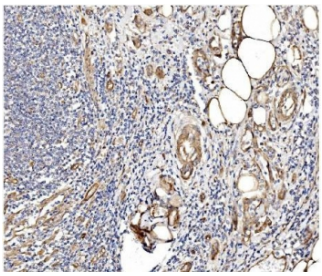
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	858
Localization	Cytoplasmic, nuclear
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml Flow Cytometry : 1-3ug/10^6 cells Immunofluorescence : 2-4ug/ml
Limitations	This Caveolin-2 antibody is available for research use only.



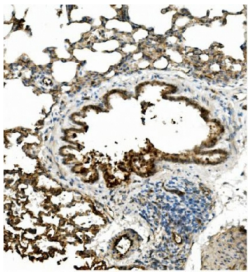
Immunofluorescent staining of FFPE rectal cancer with Caveolin-2 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA for 20 min.



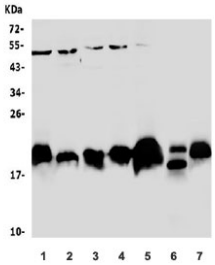
Immunofluorescent staining of FFPE human A549 cells with Caveolin-2 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



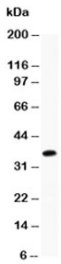
IHC staining of FFPE human rectal cancer with Caveolin-2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



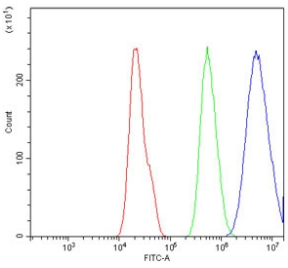
IHC staining of FFPE rat lung with Caveolin-2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing testing of human 1) HT1080, 2) U-2 OS, 3) Caco-2, 4) HeLa, 5) A549, 6) rat lung and 7) mouse lung lysate with Caveolin-2 antibody. Predicted molecular weight ~18 kDa.



Western blot testing of Caveolin-2 antibody and recombinant human protein (0.5ng).



Flow cytometry testing of human A549 cells with Caveolin-2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Caveolin-2 antibody.

Description

Caveolin-2 is a protein that in humans is encoded by the CAV2 gene. It is mapped to 7q31.1-q31.2. The protein encoded by this gene is a major component of the inner surface of caveolae, small invaginations of the plasma membrane, and is involved in essential cellular functions, including signal transduction, lipid metabolism, cellular growth control and apoptosis. This protein may function as a tumor suppressor. Caveolin-2 is a protein related to caveolin-1 which is derived caveolin-enriched membranes. CAV2 and CAV1 are similar in most respects and they differ in their functional interactions with heterotrimeric G proteins. Both of them are expressed in neuronal cells. CAV2 was upregulated in response to neuronal cell injury.

Application Notes

Titration of the Caveolin-2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 1-162) was used as the immunogen for this Caveolin-2 antibody.

Storage

The lyophilized Caveolin-2 antibody can be stored at 4oC to -20oC. After reconstitution, aliquot and store at -20oC. Avoid repeated freezing and thawing.