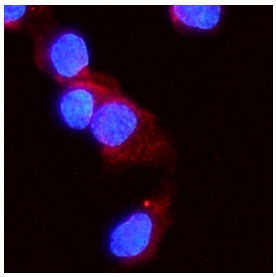
ACVR2A Antibody (R32495)

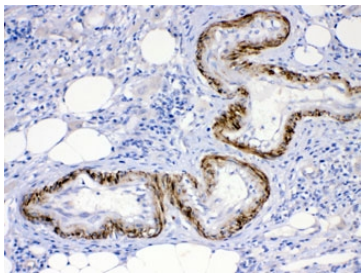
Catalog No.	Formulation	Size
R32495	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

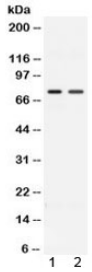
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P27037
Localization	Cytoplasmic, membranous
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml Immunofluorescence (FFPE) : 2-4ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This ACVR2A antibody is available for research use only.



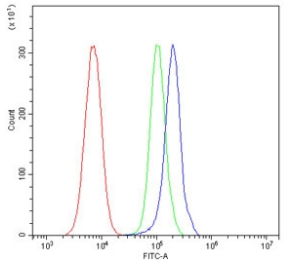
Immunofluorescent staining of FFPE rat NRK cells with ACVR2A antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



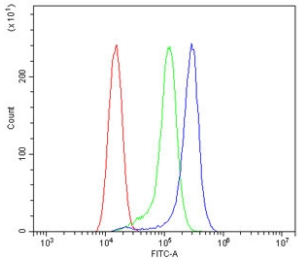
IHC testing of FFPE human intestinal cancer tissue with ACVR2A antibody at 1ug/ml. HIER: steam sections in pH6 citrate buffer for 20 min.



Western blot testing of 1) rat kidney and 2) human HeLa lysate with ACVR2A antibody at 0.5ug/ml. Predicted molecular weight ~58/70-80 kDa (unmodified/glycosylated).



Flow cytometry testing of mouse HEPA1-6 cells with ACVR2A antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= ACVR2A antibody.



Flow cytometry testing of rat RH35 cells with ACVR2A antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= ACVR2A antibody.

Description

Activin receptor type-2A is a protein that in humans is encoded by the ACVR2A gene. ACVR2A is an activin type 2 receptor. This gene encodes a receptor that mediates the functions of activins, which are members of the transforming growth factor-beta (TGF-beta) superfamily involved in diverse biological processes. The encoded protein is a transmembrane serine-threonine kinase receptor which mediates signaling by forming heterodimeric complexes with various combinations of type I and type II receptors and ligands in a cell-specific manner. The encoded type II receptor is primarily involved in ligand-binding and includes an extracellular ligand-binding domain, a transmembrane domain and a cytoplasmic serine-threonine kinase domain. This gene may be associated with susceptibility to preeclampsia, a pregnancy-related disease which can result in maternal and fetal morbidity and mortality. Alternative splicing results in multiple transcript variants of this gene.

Application Notes

Differences in protocols and secondary/substrate sensitivity may require the ACVR2A antibody to be titrated for optimal performance.

Immunogen

Amino acids Q421-L513 from the human protein were used as the immunogen for the ACVR2A antibody.

Storage

After reconstitution, the ACVR2A antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.