ARG43392
anti-ACVRL1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ACVRL1
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ACVRL1
Species	Human
Immunogen	Recombinant protein corresponding to T271-L362 of Human ACVRL1.
Conjugation	Un-conjugated
Alternate Names	ACVRLK1; ALK1; ORW2; ALK-1; HHT; EC 2.7.11.30; Serine/threonine-protein kinase receptor R3; TGF-B superfamily receptor type I; HHT2; SKR3; TSR-I; Activin receptor-like kinase 1

Application Instructions

Application table

Application	Dilution
FACS	1:150 - 1:500
IHC-P	1:200 - 1:1000
WB	1:500 - 1:2000

Application Note: IHC-P: Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: 55 ~ 60 kDa

Properties

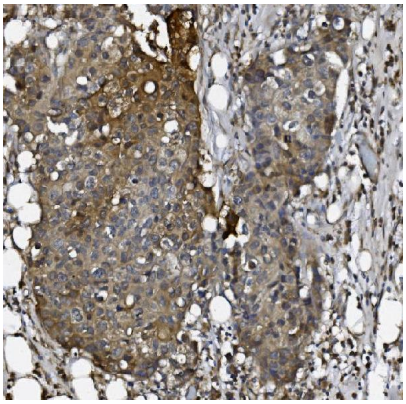
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na2HPO4, 0.9% NaCl and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

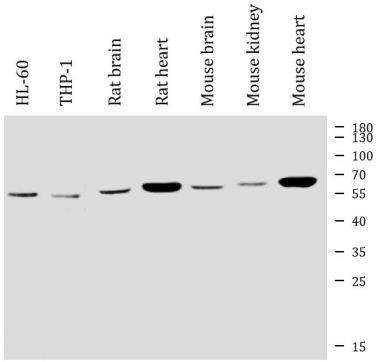
Gene Symbol	ACVRL1
Gene Full Name	activin A receptor type II-like 1
Background	This gene encodes a type I cell-surface receptor for the TGF-beta superfamily of ligands. It shares with other type I receptors a high degree of similarity in serine-threonine kinase subdomains, a glycine- and serine-rich region (called the GS domain) preceding the kinase domain, and a short C-terminal tail. The encoded protein, sometimes termed ALK1, shares similar domain structures with other closely related ALK or activin receptor-like kinase proteins that form a subfamily of receptor serine/threonine kinases. Mutations in this gene are associated with hemorrhagic telangiectasia type 2, also known as Rendu-Osler-Weber syndrome 2. [provided by RefSeq, Jul 2008]
Function	Type I receptor for TGF-beta family ligands BMP9/GDF2 and BMP10 and important regulator of normal blood vessel development. On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. May bind activin as well. [UniProt]
Calculated Mw	56 kDa
Cellular Localization	Cell membrane; Single-pass type I membrane protein. [UniProt]

Images



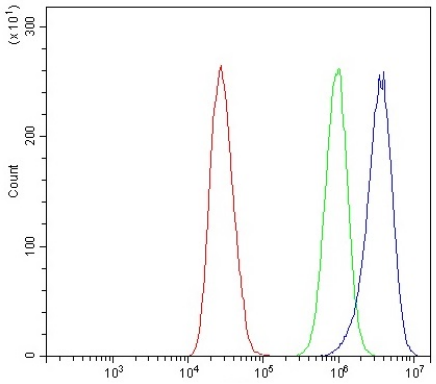
ARG43392 anti-ACVRL1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human breast cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43392 anti-ACVRL1 antibody at 2 µg/ml dilution, overnight at 4°C.



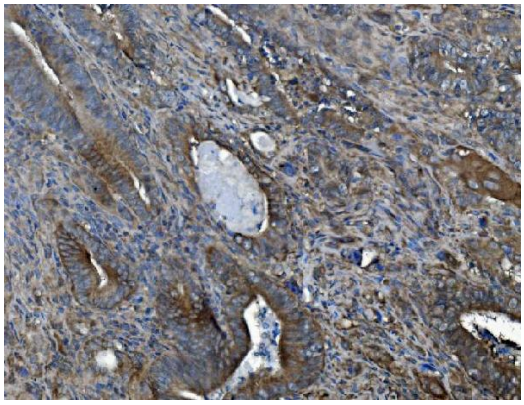
ARG43392 anti-ACVRL1 antibody WB image

Western blot: 30 µg of sample under reducing conditions. HL-60, THP-1, Rat brain, Rat heart, Mouse brain, Mouse kidney and Mouse heart lysates stained with ARG43392 anti-ACVRL1 antibody at 0.5 µg/ml dilution, overnight at 4°C.



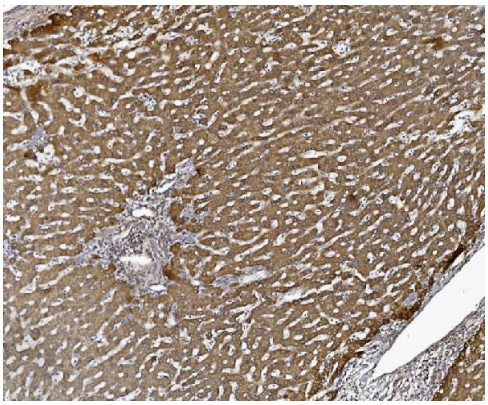
ARG43392 anti-ACVRL1 antibody FACS image

Flow Cytometry: MCF7 cells were blocked with 10% normal goat serum and then stained with ARG43392 anti-ACVRL1 antibody (blue) at 1 µg/10^6 cells for 30 min at 20°C, followed by incubation with DyLight®488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 µg/10^6 cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



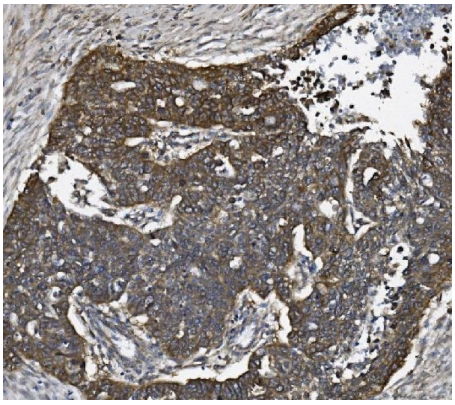
ARG43392 anti-ACVRL1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human gallbladder adenocarcinoma tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43392 anti-ACVRL1 antibody at 2 µg/ml dilution, overnight at 4°C.



ARG43392 anti-ACVRL1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human liver cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43392 anti-ACVRL1 antibody at 2 µg/ml dilution, overnight at 4°C.



ARG43392 anti-ACVRL1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human ovarian serous adenocarcinoma tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43392 anti-ACVRL1 antibody at 2 µg/ml dilution, overnight at 4°C.