

## 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	

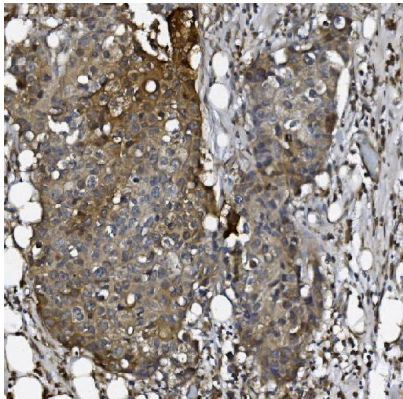
### Properties

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.

Bioinformation

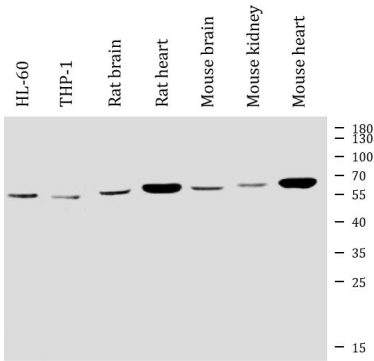
Gene Symbol	ACVRL1
Gene Full Name	activin A receptor type II-like 1
Background	This gene encodes a type I cell-surface receptor for the TGF-beta superfamily of ligands. It shares with other type I receptors a high degree of similarity in serine-threonine kinase subdomains, a glycine- and serine-rich 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



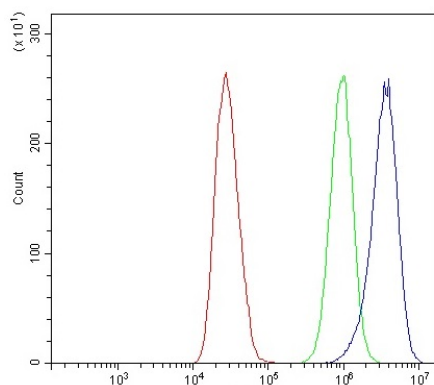
**ARG43392 anti-ACVRL1 antibody IHC-P image**

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.



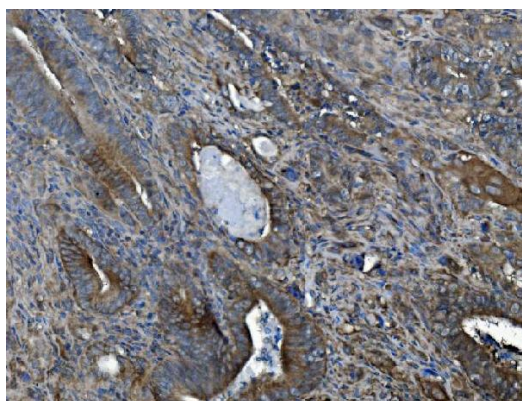
**ARG43392 anti-ACVRL1 antibody WB image**

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.



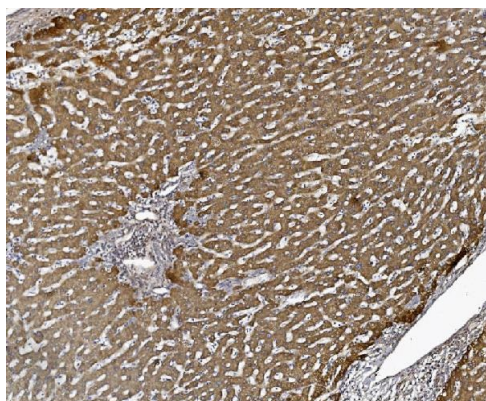
#### ARG43392 anti-ACVRL1 antibody FACS image

Flow Cytometry: MCF7 cells were blocked with 10% normal goat serum and then stained with ARG43392 anti-ACVRL1 antibody (blue) at 1 µg/10<sup>6</sup> 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<sup>6</sup> cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



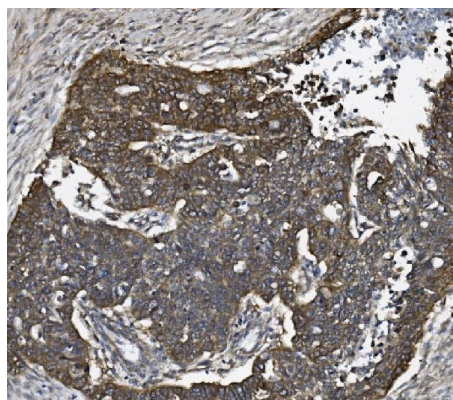
#### ARG43392 anti-ACVRL1 antibody IHC-P image

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.