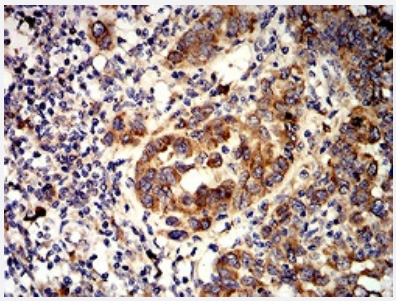
ACVR1 monoclonal antibody, clone 2E2C11

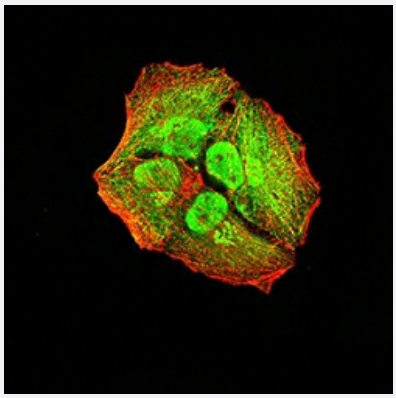
Catalog # MAB17536 Size 100 ug

Applications



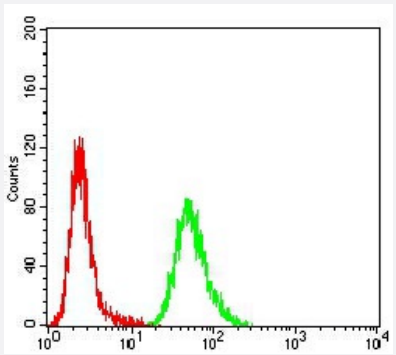
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded endometrial cancer tissues with ACVR1 monoclonal antibody.



Immunocytochemistry

Immunocytochemical staining of HeLa cells with ACVR1 monoclonal antibody (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments labeled with Alexa Fluor-555 phalloidin (red).



Flow Cytometry

Flow cytometric analysis of Hela cells with ACVR1 monoclonal antibody (green) and negative control (red).

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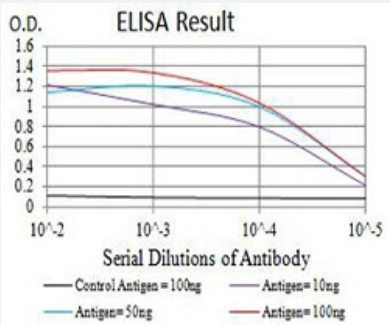
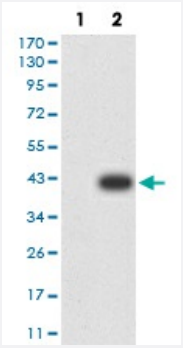


Enzyme-linked Immunoabsorbent Assay

ELISA analysis of ACVR1 monoclonal antibody, clone 2E2C11.



Western Blot (Transfected lysate)

Western blot analysis of (1) HEK293 cells, (2) ACVR1-hIgGFc transfected HEK293 cell lysate.

Specification

Product Description	Mouse monoclonal antibody raised against recombinant human ACVR1.
Immunogen	Recombinant protein corresponding to amino acid 21-120 of human ACVR1 from *E. coli*.
Host	Mouse
Theoretical MW (kDa)	57.2
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunocytochemistry (1:200-1:1000) Flow Cytometry (1:200-1:400) Immunohistochemistry (1:200-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

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Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Immunocytochemistry

  Immunocytochemical staining of HeLa cells with ACVR1 monoclonal antibody (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments labeled with Alexa Fluor-555 phalloidin (red).

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  Western blot analysis of (1) HEK293 cells, (2) ACVR1-hIgGFc transfected HEK293 cell lysate.

Gene Info — ACVR1

Entrez GeneID	90
Gene Name	ACVR1
Gene Alias	ACTRI, ACVR1A, ACVRLK2, ALK2, FOP, SKR1, TSRI
Gene Description	activin A receptor, type I
Omim ID	102576 135100
Gene Ontology	Hyperlink

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Gene Summary	Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins. Activins signal through a heteromeric complex of receptor serine kinases which include at least two type I (I and IB) and two type II (II and IIB) receptors. These receptors are all transmembrane proteins, composed of a ligand-binding extracellular domain with cysteine-rich region, a transmembrane domain, and a cytoplasmic domain with predicted serine/threonine specificity. Type I receptors are essential for signaling; and type II receptors are required for binding ligands and for expression of type I receptors. Type I and II receptors form a stable complex after ligand binding, resulting in phosphorylation of type I receptors by type II receptors. This gene encodes activin A type I receptor which signals a particular transcriptional response in concert with activin type II receptors. Mutations in this gene are associated with fibrodysplasia ossificans progressive. [provided by RefSeq
Other Designations	TGF-B superfamily receptor type I|activin A receptor, type II-like kinase 2|activin A type I receptor|hydroxyalkyl-protein kinase|serine/threonine-protein kinase receptor R1

Pathway

- Cytokine-cytokine receptor interaction
- TGF-beta signaling pathway

Disease

- Abortion
- Breast Neoplasms
- Genetic Predisposition to Disease
- Infertility
- Intracranial Aneurysm
- Narcolepsy
- Neoplasms
- Obesity
- Ovarian cancer
- Ovarian Failure
- Ovarian Neoplasms
- Polycystic Ovary Syndrome

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- Prostate cancer
- Prostatic Neoplasms
- Puberty
- Stroke
- Thrombophilia
- Tobacco Use Disorder

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