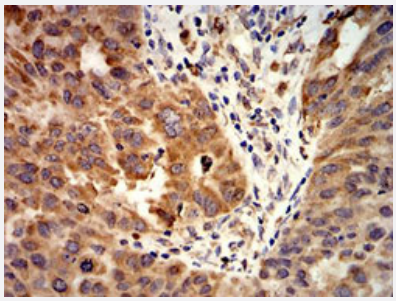
ACVR1 monoclonal antibody, clone 2E2C11

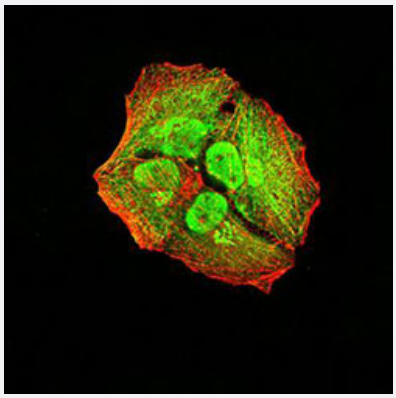
Catalog # MAB17926 Size 100 ug

Applications



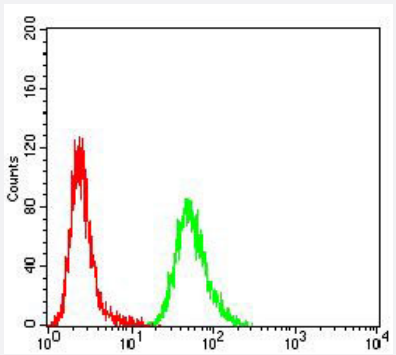
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human ovarian cancer with ACVR1 monoclonal antibody, clone 2E2C11 (Cat # MAB17926).



Immunofluorescence

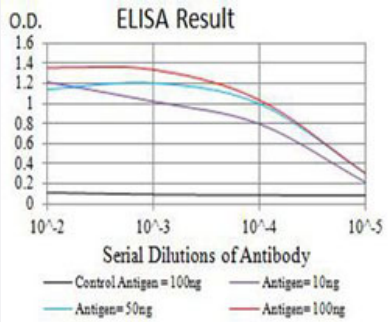
Immunofluorescent staining of HeLa cells with ACVR1 monoclonal antibody, clone 2E2C11 (Cat # MAB17926) (Green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filamentshave been labeled with Alexa Fluor- 555 phalloidin.



Flow Cytometry

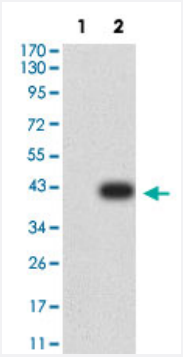
Flow cytometric analysis of HeLa cells with ACVR1 monoclonal antibody, clone 2E2C11 (Cat # MAB17926) (Green). Red: Negative Control.

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Enzyme-linked Immunoabsorbent Assay

ELISA analysis with ACVR1 monoclonal antibody, clone 2E2C11 (Cat # MAB17926).



Western Blot (Transfected lysate)

Western Blot analysis of Lane 1: HEK293 and Lane 2: ACVR1-hIgGFc transfected HEK293 cell lysates with ACVR1 monoclonal antibody, clone 2E2C11 (Cat # MAB17926).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant human ACVR1.
Immunogen	Recombinant protein corresponding to amino acids 21-120 of human ACVR1.
Host	Mouse
Theoretical MW (kDa)	57.2
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Flow Cytometry (1:200-1:400) Immunofluorescence (1:200-1:1000) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) Western Blot (1:100-1:500) 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)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human ovarian cancer with ACVR1 monoclonal antibody, clone 2E2C11 (Cat # MAB17926).

- Immunofluorescence

  Immunofluorescent staining of HeLa cells with ACVR1 monoclonal antibody, clone 2E2C11 (Cat # MAB17926) (Green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.

- Flow Cytometry

  Flow cytometric analysis of HeLa cells with ACVR1 monoclonal antibody, clone 2E2C11 (Cat # MAB17926) (Green). Red: Negative Control.

- Enzyme-linked Immunoabsorbent Assay

  ELISA analysis with ACVR1 monoclonal antibody, clone 2E2C11 (Cat # MAB17926).

- Western Blot (Transfected lysate)

  Western Blot analysis of Lane 1: HEK293 and Lane 2: ACVR1-hIgGFc transfected HEK293 cell lysates with ACVR1 monoclonal antibody, clone 2E2C11 (Cat # MAB17926).

Gene Info — ACVR1

Entrez GeneID	90
Protein Accession#	Q04771
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 fac tor-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 tw o type II (II and IIB) receptors. These receptors are all transmembrane proteins, composed of a lig and-binding extracellular domain with cysteine-rich region, a transmembrane domain, and a cytop lasmic domain with predicted serine/threonine specificity. Type I receptors are essential for signal ing; and type II receptors are required for binding ligands and for expression of type I receptors. T ype I and II receptors form a stable complex after ligand binding, resulting in phosphorylation of typ e I receptors by type II receptors. This gene encodes activin A type I receptor which signals a parti cular transcriptional response in concert with activin type II receptors. Mutations in this gene are a ssociated 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|h ydroxyalkyl-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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