

## Anti-ACVR2A antibody

<b>Cat. No.</b>	ml260105
<b>Package</b>	25 µl/100 µl/200 µl
<b>Storage</b>	-20°C, pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol

### Product overview

<b>Description</b>	Anti-ACVR2A rabbit polyclonal antibody
<b>Applications</b>	ELISA, WB, IHC
<b>Immunogen</b>	Synthetic peptide of human ACVR2A
<b>Reactivity</b>	Human, Mouse, Rat
<b>Content</b>	1.2 mg/ml
<b>Host species</b>	Rabbit
<b>Ig class</b>	Immunogen-specific rabbit IgG
<b>Purification</b>	Antigen affinity purification

### Target information

<b>Symbol</b>	ACVR2A
<b>Full name</b>	Activin receptor type-2A

**Synonyms** ACVR2, ACTRII

**Swissprot** P27037

### Target Background

This gene encodes activin A type II receptor. 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. Type II receptors are considered to be constitutively active kinases.

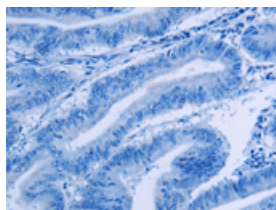
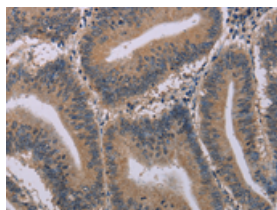
## Applications

### Immunohistochemistry

Predicted cell location: Cytoplasm

Positive control: Human colon cancer

Recommended dilution: 25-100

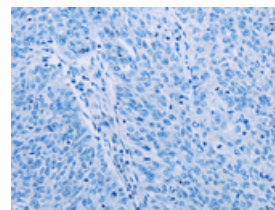
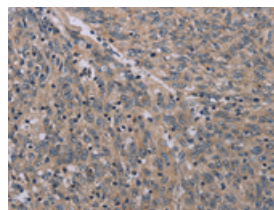


The image on the left is immunohistochemistry of paraffin-embedded Human colon cancer tissue using ml260105(ACVR2A Antibody) at dilution 1/20, on the right is treated with synthetic peptide. (Original magnification:  $\times 200$ )

Predicted cell location: Cytoplasm

Positive control: Human ovarian cancer

Recommended dilution: 25-100



The image on the left is immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using ml260105(ACVR2A Antibody) at dilution 1/20, on the right is treated with synthetic peptide. (Original magnification:  $\times 200$ )

### Western blotting

Predicted band size: 58 kDa

Positive control: Human fetal brain tissue

Recommended dilution: 500-2000

Gel: 6%SDS-PAGE

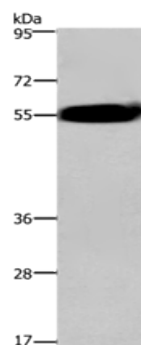
Lysate: 40  $\mu$ g

Lane: Human fetal brain tissue

Primary antibody: ml260105(ACVR2A Antibody) at dilution 1/400

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 2 minutes



#### ELISA

Recommended dilution: 2000-5000

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