

## Recombinant Activin A Receptor Type IB/ALK-4 Monoclonal Antibody

catalog number: **AN301427L**

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

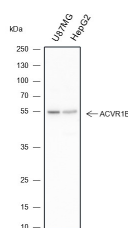
### Description

<b>Reactivity</b>	Human;Mouse
<b>Immunogen</b>	Recombinant human Activin A Receptor Type IB/ALK-4 fragment
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG, $\kappa$
<b>Clone</b>	A122
<b>Purification</b>	Protein A purified
<b>Buffer</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

### Applications

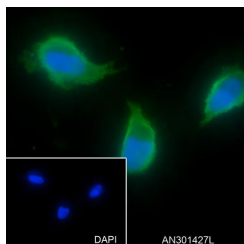
Applications	Recommended Dilution
<b>WB</b>	1:500-1:1000
<b>IF</b>	1:50

### Data

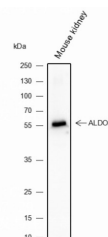


Western Blot with Activin A Receptor Type IB/ALK-4 Monoclonal Antibody at dilution of 1:1000. Lane 1: U87MG, Lane 2: HepG2

**Observed-MW:55 kDa**  
**Calculated-MW:52 kDa**



Immunofluorescent analysis of (4% Paraformaldehyde) fixed SH-SY5Y cells using anti-Activin A Receptor Type IB/ALK-4 Monoclonal Antibody at dilution of 1:50.



Western Blot with Activin A Receptor Type IB/ALK-4 Monoclonal Antibody at dilution of 1:1000. Lane 1: Mouse kidney

**Observed-MW:55 kDa**  
**Calculated-MW:52 kDa**

### Preparation & Storage

<b>Storage</b>	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
<b>Shipping</b>	Ice bag

### Background

### For Research Use Only

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Rev. V1.0

Transmembrane serine/threonine kinase activin type-1 receptor forming an activin receptor complex with activin receptor type-2 (ACVR2A or ACVR2B). Transduces the activin signal from the cell surface to the cytoplasm and is thus regulating a many physiological and pathological processes including neuronal differentiation and neuronal survival, hair follicle development and cycling, FSH production by the pituitary gland, wound healing, extracellular matrix production, immunosuppression and carcinogenesis. Activin is also thought to have a paracrine or autocrine role in follicular development in the ovary. Within the receptor complex, type-2 receptors (ACVR2A and/or ACVR2B) act as a primary activin receptors whereas the type-1 receptors like ACVR1B act as downstream transducers of activin signals. Activin binds to type-2 receptor at the plasma membrane and activates its serine-threonine kinase. The activated receptor type-2 then phosphorylates and activates the type-1 receptor such as ACVR1B. Once activated, the type-1 receptor binds and phosphorylates the SMAD proteins SMAD2 and SMAD3, on serine residues of the C-terminal tail.