SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-ACVR2A antibody

Catalog Number: SL22941R

FOR RESEARCH USE ONLY

[DATASHEET]

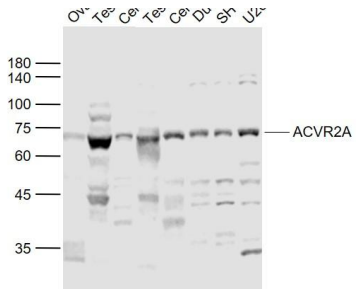
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	ACVR2A
Immunogen:	KLH conjugated synthetic peptide derived from mouse ACVR2A: 1-100/513 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, Mouse, Rat
Predicted MW.:	57kDa
Subcellular Location:	The cell membrane
Background:	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. Activin has been suggested to be an autocrine/paracrine regulator in the human

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	placenta. The presence of ACVR2 mRNA has been deomnstrated in human trophoblast cells and there is also evidence of expression of the gene in human brain and ovary. **Function:** 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. Receptor for activin A, activin B and inhibin A. **Subunit:** Interacts with AIP1. Part of a complex consisting of AIP1, ACVR2A, ACVR1B and SMAD3. **Subcellular Location:** Membrane; Single-pass type I membrane protein. **Similarity:** Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily. Contains 1 protein kinase domain. **Database links:** **Entrez Gene:** 92 Human **Entrez Gene:** 11480 Mouse **Entrez Gene:** 29263 Rat Omim: 102581 Human **SwissProt:** P27037 Human **SwissProt:** P27038 Mouse **SwissProt:** P38444 Rat **Unigene:** 470174 Human **Unigene:** 314338 Mouse **Unigene:** 161783 Ra Activin Receptor IIA- ARIP2a is a new member of the ARIP family, highly expressed in brain tissue, pituitary and testis, and expressed in pancreas and ovarian tissue.

[VALIDATION IMAGES]



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Sample:
Lane 1: Ovary (Mouse) Lysate at 40 ug
Lane 2: Testis (Mouse) Lysate at 40 ug
Lane 3: Cerebrum (Mouse) Lysate at 40 ug
Lane 4: Testis (Rat) Lysate at 40 ug
Lane 5: Cerebrum (Rat) Lysate at 40 ug
Lane 6: Du145 (Human) Cell Lysate at 30 ug
Lane 7: SH-SY5Y (Human) Cell Lysate at 30 ug
Lane 8: U2os (Human) Cell Lysate at 30 ug
Primary: Anti-ACVR2A (SL22941R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 65 kD
Observed band size: 68 kD

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