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ACVR2A Rabbit pAb

Catalog # AP96188

Product Information

Application	WB
Primary Accession	P27038
Other Accession	P27038
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57890
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse ACVR2A
Epitope Specificity	1-100/513
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
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.
SUBUNIT	Interacts with AIP1. Part of a complex consisting of AIP1, ACVR2A, ACVR1B and SMAD3 (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Members of the transforming growth factor b superfamily bind to a pair of transmembrane proteins, known as receptor types I and II, which contain serine/threonine kinases and associate to form a signaling complex (1). Activin has been shown to bind a heteromeric noncovalent complex, which consists of a type I receptor, ACTR-IA (also designated ACVRI and ALK-2) or ACTR-IB (also designated ALK-4 and SKR2), and a type II receptor, ACTR-IIA (also designated ACVR2A) or ACTR-IIB (also designated ACVR2B) (1-6). Both receptor types are highly expressed in brain (5). The activin receptor family members are thought to mediate distinct effects on gene expression, cell differentiation, and morpho- genesis in a dose dependent fashion (5,6).

Additional Information

Gene ID	11480
Other Names	ACVR2; ACTRII; ActrIIa; TactrII; rActR-II; actr2a; acvr2a; wu:fa02e10; AVR2A_HUMAN; Activin receptor type IIA (ACTR-IIA | ACTRIIA); 2.7.11.30; AVR2A_MOUSE; Activin receptor type IIA (ACTR-IIA); AVR2A_RAT; activin A receptor type 2A; activin A receptor, type II; activin A receptor, type IIA
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Acvr2a {ECO:0000312|MGI:MGI:102806}
Synonyms	Acvr2
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. Mediates induction of adipogenesis by GDF6 (PubMed:23527555).
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Brain, testis, intestine, liver and kidney.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.