

[Go to Product page](#)

Datasheet for ABIN5608400

ACVA Protein (partial) (His tag)

Overview

Quantity:	100 µg
Target:	ACVA
Protein Characteristics:	partial
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ACVA protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA

Product Details

Sequence:	Ser 21 - Ser 426
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Endotoxin level is less than 1.0 EU per ug by the LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized Human Activin A, His Tag at 10 µg/mL (100 uL/well) can bind Human ACVR2A, Fc Tag with a linear range of 0.625-20 µg/mL (QC tested).

Target Details

Target:	ACVA
---------	------

Target Details

Alternative Name: [Activin A \(ACVA Products\)](#)

Background: Activin and inhibin are two closely related protein complexes that have almost directly opposite biological effects. Activin enhances FSH biosynthesis and secretion, and participates in the regulation of the menstrual cycle. Many other functions have been found to be exerted by activin, including roles in cell proliferation, differentiation, apoptosis, metabolism, homeostasis, immune response, wound repair, and endocrine function. Conversely inhibin down regulates FSH synthesis and inhibits FSH secretion. Activins are nonglycosylated homodimers or heterodimers of various beta subunits (betaA, betaB, betaC, and betaE in mammals), while Inhibins are heterodimers of a unique alpha subunit and one of the beta subunits. Activin A is a widely expressed homodimer of two betaA chains. The betaA subunit can also heterodimerize with a betaB or betaC subunit to form Activin AB and Activin AC, respectively. The 14 kDa mature human betaA chain shares 100 % amino acid sequence identity with bovine, feline, mouse, porcine, and rat betaA. Activin is produced in the gonads, pituitary gland, placenta, and other organs. The bioactivity of Activin A is regulated by a variety of mechanisms. In the ovarian follicle, activin increases FSH binding and FSH-induced aromatization, Activin is strongly expressed in wounded skin, and overexpression of activin in epidermis of transgenic mice improves wound healing and enhances scar formation, Activin also regulates the morphogenesis of branching organs such as the prostate, lung, and especially kidney. Activin A increased the expression level of type-I collagen suggesting that activin A acts as a potent activator of fibroblasts, Lack of activin during development results in neural developmental defects.

Molecular Weight: 13 kDa (mature) & 32 kDa (pro)

Gene ID: 3624

UniProt: [P08476](#)

Pathways: [Hormone Transport](#), [Peptide Hormone Metabolism](#)

Application Details

Application Notes: This recombinant protein can be used for E, WB.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Handling

Buffer:	PBS, pH 7.4
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C, -80 °C
Storage Comment:	Lyophilized Protein should be stored at -20°C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20°C or -70°C.