



Anti-Activin A monoclonal antibody, clone 70504 (DCABY-3915)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Activins, members of the TGF-beta superfamily, are disulfide-linked dimeric proteins originally purified from gonadal fluids as proteins that stimulated pituitary follicle stimulating hormone (FSH) release. Activin proteins have a wide range of biological activities, including mesoderm induction, neural cell differentiation, bone remodeling, hematopoiesis and roles in reproductive physiology. Activin isoforms and other members of the TGF-beta superfamily exert their biological effects by binding to heteromeric complexes of a type I and a type II serine-threonine kinase receptor, both of which are essential for signal transduction. Activins are homodimers or heterodimers of the various beta subunit isoforms, while inhibins are heterodimers of a unique alpha subunit and one of the various beta subunits. Five beta subunits (mammalian beta A, beta B, beta C, beta E and Xenopus beta D) have been cloned to date. The activin/inhibin nomenclature reflects the subunit composition of the proteins: Activin A (beta A - beta A), Activin B (beta B - beta B), Activin AB (beta A - beta B), Inhibin A (alpha - beta A) and Inhibin B (alpha - beta B).
Specificity	Detects recombinant human ActivinA in ELISAs. Also recognizes ActivinA precursor. The amino acid sequences of mature beta A subunits from human, mouse and rat are identical. Therefore, this antibody will also detect the mature beta A subunit from mouse and rat.
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Activin A
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	70504
Purification	Protein A or G purified from hybridoma culture supernatant

Conjugate	Unconjugated
Applications	ELISA Capture (Matched Pair), Neutralization
Format	Liquid
Size	500 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
Preservative	None
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	INHBA inhibin, beta A [Homo sapiens (human)]
Official Symbol	INHBA
Synonyms	INHBA; inhibin, beta A; EDF; FRP; inhibin beta A chain; Inhibin, beta-1; activin beta-A chain; FSH-releasing protein; erythroid differentiation factor; erythroid differentiation protein; follicle-stimulating hormone-releasing protein; inhibin, beta A (act
Entrez Gene ID	3624
Protein Refseq	NP_002183
UniProt ID	A4D1W7
Chromosome Location	7p15-p13
Pathway	ALK1 signaling events; Antagonism of Activin by Follistatin; Cardiac Progenitor Differentiation; Cytokine-cytokine receptor interaction; Glycoprotein hormones; Integrated Pancreatic Cancer Pathway; Metabolism of proteins; Peptide hormone biosynthesis;
Function	cytokine activity; growth factor activity; hormone activity; identical protein binding; peptide hormone binding; protein binding; protein heterodimerization activity; type II activin receptor binding;