

Human Alpha-Actinin 1 (ACTN-1) ELISA Kit | ACTN-1 elisa kit

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CATALOG #
AAA331088

REACTIVITY
Human

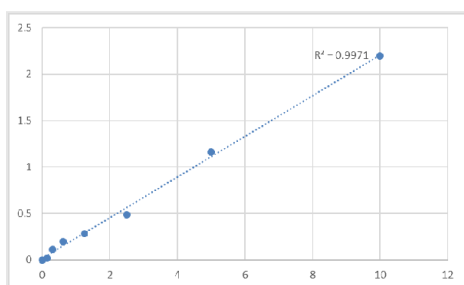
PRODUCT SYNONYMS

Alpha-Actinin 1 (ACTN-1); Human Alpha-Actinin 1 (ACTN-1) ELISA Kit; ACTN1; FLJ40884; FLJ54432; F-actin cross-linking protein; actinin 1 smooth muscle; alpha-actinin 1; ACTN-1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Alpha-Actinin 1 (ACTN-1) ELISA Kit has high sensitivity and excellent specificity for detection of Human ACTN1. No significant cross-reactivity or interference between Human ACTN1 and analogues was observed.
Sequence Length	892
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Alpha-Actinin 1 (ACTN-1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for ACTN-1 elisa kit	Description: This Human Alpha-Actinin 1 (ACTN-1) ELISA Kit employs a two-site sandwich ELISA to quantitate ACTN1 in samples. An antibody specific for ACTN1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ACTN1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ACTN1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of ACTN1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Alpha actinins belong to the spectrin gene superfamily which represents a diverse group of cytoskeletal proteins, including the alpha and beta spectrins and dystrophins. Alpha actinin is an actin-binding protein with multiple roles in different cell types. In nonmuscle cells, the cytoskeletal isoform is found along microfilament bundles and adherens-type junctions, where it is involved in binding actin to the membrane. In contrast, skeletal, cardiac, and smooth muscle isoforms are localized to the Z-disc and analogous dense bodies, where they help anchor the myofibrillar actin filaments. Alpha-actinin-1 is a nonmuscle, cytoskeletal, alpha actinin isoform and maps to the same site as the structurally similar erythroid beta spectrin gene.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4501891
NCBI GeneID	87
NCBI Accession #	NP_001093.1
NCBI GenBank Nucleotide #	NP_001093.1
UniProt Accession #	P12814
NCBI Official Full Name	alpha-actinin-1 isoform b
NCBI Official Synonym Full Names	actinin alpha 1
NCBI Official Symbol	ACTN1
NCBI Official Synonym Symbols	BDPLT15
NCBI Protein Information	alpha-actinin-1
UniProt Protein Name	Alpha-actinin-1
UniProt Gene Name	ACTN1
UniProt Entry Name	ACTN1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.