

Human Alpha-Actinin 3 (ACTN-3) ELISA Kit | ACTN-3 elisa kit

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CATALOG #
AAA331090

REACTIVITY
Human

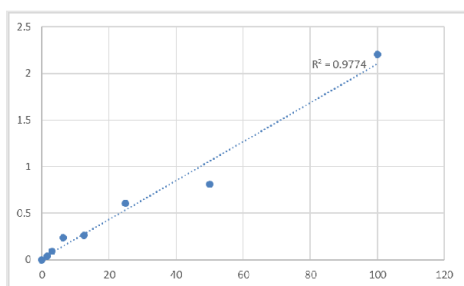
PRODUCT SYNONYMS

Alpha-Actinin 3 (ACTN-3); Human Alpha-Actinin 3 (ACTN-3) ELISA Kit; ACTN3; MGC117002; MGC117005; ACTN-3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Alpha-Actinin 3 (ACTN-3) ELISA Kit has high sensitivity and excellent specificity for detection of Human ACTN3. No significant cross-reactivity or interference between Human ACTN3 and analogues was observed.
Sequence Length	944
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 3 (ACTN-3) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for ACTN-3 elisa kit	Description: This Human Alpha-Actinin 3 (ACTN-3) ELISA Kit employs a two-site sandwich ELISA to quantitate ACTN3 in samples. An antibody specific for ACTN3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ACTN3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ACTN3 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 ACTN3 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Actinin, alpha 3, also known as ACTN3, is a protein which in humans is encoded by the ACTN3 gene. Alpha-actinin is an actin-binding protein with multiple roles in different cell types. This gene expression is limited to skeletal muscle. It is localized to the Z-disc and analogous dense bodies, where it helps to anchor the myofibrillar actin filaments. Skeletal muscle is composed of long cylindrical cells called muscle fibers. There are two types of muscle fibers, slow twitch or muscle contraction (type I) and fast twitch (type II). Slow twitch fibers are more efficient in using oxygen to generate energy whilst fast twitch fibers are less efficient. However, fast twitch fibers fire more rapidly and generate more force.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	385648244
NCBI GeneID	89
NCBI Accession #	NP_001245300.1
NCBI GenBank Nucleotide #	NP_001245300.1
UniProt Accession #	Q08043
NCBI Official Full Name	alpha-actinin-3 isoform 2
NCBI Official Synonym Full Names	actinin alpha 3 (gene/pseudogene)
NCBI Official Symbol	ACTN3
NCBI Official Synonym Symbols	ACTN3D
NCBI Protein Information	alpha-actinin-3
UniProt Protein Name	Alpha-actinin-3
UniProt Gene Name	ACTN3
UniProt Entry Name	ACTN3_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.