Human Myosin-IIIa (MYO3A) ELISA Kit | MYO3A elisa kit

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CATALOG #	REACTIVITY
AAA331581	**Human**

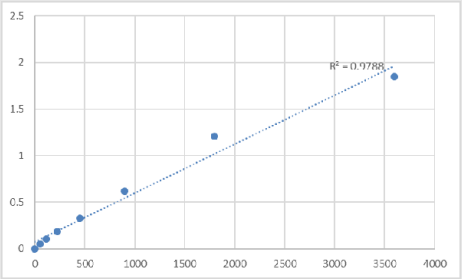
PRODUCT SYNONYMS

Myosin-IIIa (MYO3A); Human Myosin-IIIa (MYO3A) ELISA Kit; MYO3A; DFNB30; MYO3A elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Myosin-IIIa (MYO3A) ELISA Kit has high sensitivity and excellent specificity for detection of Human MYO3A. No significant cross-reactivity or interference between Human MYO3A and analogues was observed.
Sequence Length	1616
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 Myosin-IIIa (MYO3A) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for MYO3A elisa kit	Description: This Human Myosin-IIIa (MYO3A) ELISA Kit employs a two-site sandwich ELISA to quantitate MYO3A in samples. An antibody specific for MYO3A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MYO3A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MYO3A 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 MYO3A bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Myosin-IIIa encoded by MYO3A belongs to the myosin superfamily. Myosins are actin-dependent motor proteins and are categorized into conventional myosins (class II) and unconventional myosins (classes I and III through XV) based on their variable C-terminal cargo-binding domains. Class III myosins, such as this one, have a kinase domain N-terminal to the conserved N-terminal motor domains and are expressed in photoreceptors. Myosin-IIIa encoded by MYO3A plays an important role in hearing in humans. Three different recessive, loss of function mutations in the encoded protein have been shown to cause nonsyndromic progressive hearing loss. Expression of MYO3A is highly restricted, with the strongest expression in retina and cochlea.

NCBI AND UNIPROT INFORMATION

NCBI GI #	145275208
NCBI GeneID	53904
NCBI Accession #	NP_059129.3
NCBI GenBank Nucleotide #	NP_059129.3
UniProt Accession #	Q8NEV4
NCBI Official Full Name	myosin-IIIa isoform 1
NCBI Official Synonym Full Names	myosin IIIA
NCBI Official Symbol	MYO3A
NCBI Official Synonym Symbols	DFNB30
NCBI Protein Information	myosin-IIIa
UniProt Protein Name	Myosin-IIIa
UniProt Gene Name	**MYO3A**
UniProt Entry Name	MYO3A_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.

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Online datasheet: https://www.aaabiotech.com/human-elisa-kits/myosin-iiia-myo3a/331581