

Human Actin, Cytoplasmic 2 (ACTG1) ELISA Kit | ACTG1 elisa kit

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CATALOG #
AAA331084

REACTIVITY
Human

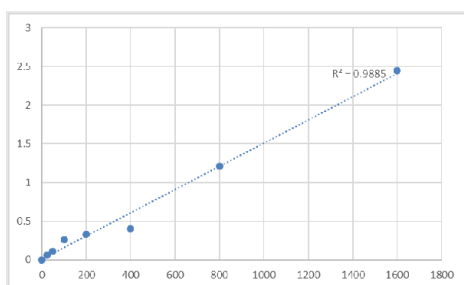
PRODUCT SYNONYMS

Actin; Cytoplasmic 2 (ACTG1); Human Actin; Cytoplasmic 2 (ACTG1) ELISA Kit; ACTG1; ACT; ACTG; DFNA20; DFNA26; actin; cytoplasmic 2; gamma 1 propeptide; cytoskeletal gamma-actin; ACTG1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Actin, cytoplasmic 2 (ACTG1) ELISA Kit has high sensitivity and excellent specificity for detection of Human ACTG1. No significant cross-reactivity or interference between Human ACTG1 and analogues was observed.
Sequence Length	375
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 Actin, cytoplasmic 2 (ACTG1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for ACTG1 elisa kit	Description: This Human Actin, cytoplasmic 2 (ACTG1) ELISA Kit employs a two-site sandwich ELISA to quantitate ACTG1 in samples. An antibody specific for ACTG1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ACTG1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ACTG1 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 ACTG1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Actins are highly conserved proteins that are involved in various types of cell motility, and maintenance of the cytoskeleton. In vertebrates, three main groups of actin isoforms, alpha, beta and gamma have been identified. Actin, gamma 1, encoded by this gene, is a cytoplasmic actin found in nonmuscle cells. Defects in ACTG1 are the cause of non-syndromic sensorineural deafness autosomal dominant type 20 (DFNA20); also called autosomal dominant deafness type 26 (DFNA26). DFNA20 is a form of sensorineural hearing loss. Sensorineural deafness results from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of the brain that receives sound information.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	54036678
NCBI GeneID	71
UniProt Accession #	P63261
NCBI Official Full Name	Actin, cytoplasmic 2
NCBI Official Synonym Full Names	actin gamma 1
NCBI Official Symbol	ACTG1
NCBI Official Synonym Symbols	ACT; ACTG; DFNA20; DFNA26; HEL-176
NCBI Protein Information	actin, cytoplasmic 2
UniProt Protein Name	Actin, cytoplasmic 2
UniProt Gene Name	ACTG1
UniProt Synonym Gene Names	ACTG
UniProt Entry Name	ACTG_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.