

Human beta-Actin ELISA Kit | ACTB elisa kit

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CATALOG #
AAA331081

REACTIVITY
Human

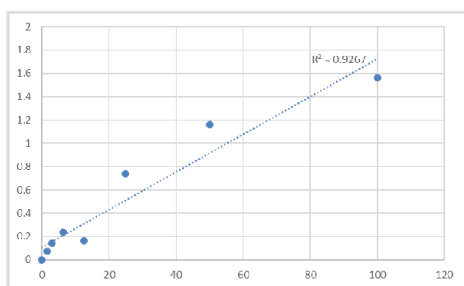
PRODUCT SYNONYMS

beta-Actin; Human beta-Actin ELISA Kit; PS1TP5BP1; PS1TP5-binding protein 1; actin; cytoplasmic 1; beta actin; beta cytoskeletal actin; ACTB elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human beta-actin ELISA Kit has high sensitivity and excellent specificity for detection of Human ACTB. No significant cross-reactivity or interference between Human ACTB 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 beta-actin Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for ACTB elisa kit	Description: This Human beta-actin ELISA Kit employs a two-site sandwich ELISA to quantitate ACTB in samples. An antibody specific for ACTB has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ACTB present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ACTB 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 ACTB bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Beta-actin (gene name ACTB) is one of the two nonmuscle cytoskeletal actins. Actins are highly conserved proteins that are involved in cell motility, structure and integrity. Alpha actins are a major constituent of the contractile apparatus. In a neoplastic cell line resulting from treatment of cultured human diploid fibroblasts with a chemical mutagen, Leavitt et al. (1982) observed a mutant form of beta actin. Toyama and Toyama (1984) isolated and characterized lines of KB cells resistant to cytochalasin B. They found that one resistant line had an alteration in beta-actin. Such cells bound less cytochalasin B than did parental KB cells. The authors suggested that the primary site of action of cytochalasin B on cell motility processes is beta-actin.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4501885
NCBI GeneID	60
NCBI Accession #	NP_001092.1
NCBI GenBank Nucleotide #	NP_001092.1
UniProt Accession #	P60709
NCBI Official Full Name	actin, cytoplasmic 1
NCBI Official Synonym Full Names	actin beta
NCBI Official Symbol	ACTB
NCBI Official Synonym Symbols	BRWS1; PS1TP5BP1
NCBI Protein Information	actin, cytoplasmic 1
UniProt Protein Name	Actin, cytoplasmic 1
UniProt Gene Name	ACTB
UniProt Entry Name	ACTB_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://stage.aaabiotech.com/actb-human-elisa-kits/beta-actin/331081>