

Human 14-3-3 protein sigma ELISA Kit | SFN elisa kit

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CATALOG #
AAA17647

REACTIVITY
Human

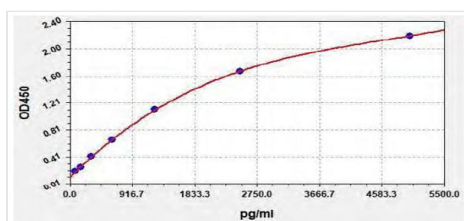
PRODUCT SYNONYMS

14-3-3 protein sigma; Human 14-3-3 protein sigma ELISA Kit; SFN/14-3-3 protein sigma/Epithelial cell marker protein 1/Stratifin/HME1/YWHAS; SFN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize SFN, no obvious cross reaction with other analogues
Sequence Length	248
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	78.125-5000pg/ml
Sensitivity	46.875pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SFN elisa kit	Background: 14-3-3 protein sigma, also known as SFN, stratifin, HME1 or YWHAS, is a secreted adaptor protein that is involved in regulating both general and specific signaling pathways. Expressed predominately in stratified squamous keratinising epithelium, SFN is able to bind and modify the activity of a large number of proteins, such as KRT17 (Keratin 17), through recognition of a phosphothreonine or phosphoserine motif. When bound to Keratin 17, for example, SFN acts to stimulate the Akt/mTOR signaling pathway by upregulating protein synthesis and cell growth. SFN also functions to positively mediate IGF-I-induced cell cycle progression and can bind to a variety of translation initiation factors, thus controlling mitotic translation. In response to tumor growth, SFN positively regulates the tumor suppressor p53 and increases the rate of p53-regulated inhibition of G2/M cell cycle progression. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti SFN antibody was pre-coated onto the 96-well plate. The biotin conjugated anti SFN antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with SFN conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of SFN in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	5454052
NCBI GeneID	2810
NCBI Accession #	NP_006133.1
NCBI GenBank Nucleotide #	NM_006142.3
Molecular Weight	24,336 Da
NCBI Official Full Name	14-3-3 protein sigma
NCBI Official Synonym Full Names	stratifin
NCBI Official Symbol	SFN
NCBI Official Synonym Symbols	YWHAS
NCBI Protein Information	14-3-3 protein sigma
UniProt Protein Name	14-3-3 protein sigma
UniProt Gene Name	SFN
UniProt Synonym Gene Names	HME1
UniProt Entry Name	1433S_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/sfn-human-elisa-kits/14-3-3-protein-sigma/17647>