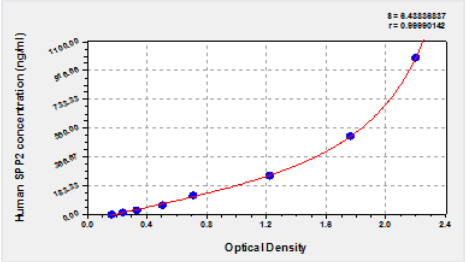
Secreted Phosphoprotein 2, 24kDa (SPP2) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	secreted phosphoprotein 2, 24kDa (SPP2), ELISA Kit
Full Product Name	Human Secreted phosphoprotein 2, SPP2/SPP24 ELISA Kit
Product Gene Name	SPP2 elisa kit
Product Synonym Names	Human Secreted phosphoprotein 2 (SPP2/SPP24) ELISA kit; SPP24; OTTHUMP00000065382; secreted phosphoprotein 24; secreted phosphoprotein 2; 24kDa
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, plasma, tissue homogenates.
Detection Range	15.6 ng/ml-1000 ng/ml.
Sensitivity	3.9 ng/ml.
Specificity	This assay has high sensitivity and excellent specificity for detection of human SPP2. No significant cross-reactivity or interference between human SPP2 and analogues was observed.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Molecular Weight	24,338 Da
OMIM	602637
3D Structure	ModBase 3D Structure for Q13103
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SPP2 elisa kit	Principle of the Assay||This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for SPP2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SPP2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SPP2 is added to the wells. After washing, avidin 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 SPP2 bound in the initial step. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of SPP2 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SPP2 purchase	MBS947110 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the secreted phosphoprotein 2, 24kDa (SPP2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing SPP2. The ELISA analytical biochemical technique of the MBS947110 kit is based on SPP2 antibody-SPP2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect SPP2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, SPP2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of SPP2 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SPP2. It may not necessarily be applicable to this product.

NCBI GI #	5902118
NCBI GeneID	6694
NCBI Accession #	NP_008875.1
UniProt Primary Accession #	Q13103
UniProt Secondary Accession #	Q3B892; Q546M5; A4QMV3
UniProt Related Accession #	Q13103
GenBank Nucleotide #	NM_006944.2
NCBI Official Full Name	secreted phosphoprotein 24
NCBI Official Synonym Full Names	secreted phosphoprotein 2, 24kDa
NCBI Official Symbol	SPP2
NCBI Official Synonym Symbols	SPP24; SPP-24
UniProt Protein Name	Secreted phosphoprotein 24
UniProt Synonym Protein Names	Secreted phosphoprotein 2
Protein Family	Pre-mRNA-splicing factor
UniProt Gene Name	SPP2
UniProt Synonym Gene Names	SPP24; Spp-24
UniProt Entry Name	SPP24_HUMAN
NCBI Protein Information	secreted phosphoprotein 24; secreted phosphoprotein 2, 24kD
NCBI Summary for SPP2	This gene encodes a secreted phosphoprotein that is a member of the cystatin superfamily. [provided by RefSeq, Oct 2008]
UniProt Comments for SPP2	SPP2: Could coordinate an aspect of bone turnover. Belongs to the SPP2 family. Protein type: Inhibitor; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 2q37.1 Cellular Component: protein complex Molecular Function: endopeptidase inhibitor activity Biological Process: protein complex assembly; bone remodeling; skeletal development
Research Articles on SPP2	**1.** spp24 contains at least 2 single nucleotide polymorphisms. Given its mechanism of action and sequence variability, SPP24 may be an interesting candidate for future studies of the genetic regulation of bone mass.

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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