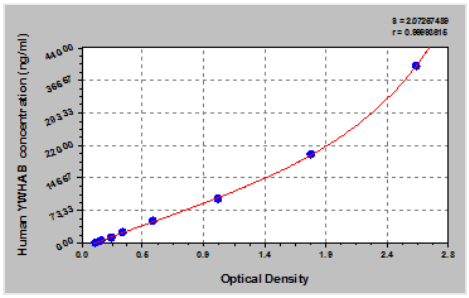
Tyrosine 3-Monooxygenase/Tryptophan 5-Monooxygenase Activation Protein, Beta Poly (YWHAB) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide (YWHAB), ELISA Kit
Full Product Name	Human 14-3-3 protein beta/alpha, YWHAB ELISA Kit
Product Gene Name	YWHAB elisa kit
Product Synonym Names	Human 14-3-3 protein beta/alpha (YWHAB) ELISA kit; GW128; HS1; KCIP-1; 14-3-3 protein beta/alpha; brain protein 14-3-3; beta isoform; protein 1054; protein kinase C inhibitor protein-1; tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein; beta polypeptide
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Serum, plasma, tissue homogenates, cell lysates
Detection Range	6.25 ng/ml-400 ng/ml
Sensitivity	<1.56 ng/ml
Specificity	This assay has high sensitivity and excellent specificity for detection of human YWHAB. No significant cross-reactivity or interference between human YWHAB 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	28,082 Da
OMIM	601289
3D Structure	ModBase 3D Structure for P31946
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for YWHAB elisa kit	Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for YWHAB has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any YWHAB present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for YWHAB 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 YWHAB bound in the initial step. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of YWHAB 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 YWHAB purchase	MBS701844 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide (YWHAB) 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 YWHAB. The ELISA analytical biochemical technique of the MBS701844 kit is based on YWHAB antibody-YWHAB antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect YWHAB antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, YWHAB. 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 YWHAB elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	4507949
NCBI GeneID	7529
NCBI Accession #	NP_003395.1
UniProt Primary Accession #	P31946
UniProt Secondary Accession #	A8K9K2; E1P616
UniProt Related Accession #	P31946
GenBank Nucleotide #	NM_003404.4
NCBI Official Full Name	14-3-3 protein beta/alpha
NCBI Official Synonym Full Names	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta
NCBI Official Symbol	YWHAB
NCBI Official Synonym Symbols	HS1; GW128; YWHAA; KCIP-1; HEL-S-1
UniProt Protein Name	14-3-3 protein beta/alpha
UniProt Synonym Protein Names	Protein 1054; Protein kinase C inhibitor protein 1; KCIP-1
Protein Family	14-3-3 protein
UniProt Gene Name	YWHAB
UniProt Synonym Gene Names	KCIP-1
UniProt Entry Name	1433B_HUMAN
NCBI Protein Information	14-3-3 protein beta/alpha; 14-3-3 alpha; protein 1054; epididymis secretory protein Li 1; brain protein 14-3-3, beta isoform; protein kinase C inhibitor protein 1; protein kinase C inhibitor protein-1; tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide; tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, alpha polypeptide

NCBI Summary for YWHAB	This gene encodes a protein belonging to the 14-3-3 family of proteins, members of which mediate signal transduction by binding to phosphoserine-containing proteins. This highly conserved protein family is found in both plants and mammals. The encoded protein has been shown to interact with RAF1 and CDC25 phosphatases, suggesting that it may play a role in linking mitogenic signaling and the cell cycle machinery. Two transcript variants, which encode the same protein, have been identified for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for YWHAB	**Function:** Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways. Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif. Binding generally results in the modulation of the activity of the binding partner. Negative regulator of osteogenesis. Blocks the nuclear translocation of the phosphorylated form (by AKT1) of SRPK2 and antagonizes its stimulatory effect on cyclin D1 expression resulting in blockage of neuronal apoptosis elicited by SRPK2.2 PublicationsManual assertion based on experiment in:Ref.13
Research Articles on YWHAB	**1.** Using gene reporter assays, we show that promoter variations in 11 intrinsic apoptosis genes, including ADPRT, APAF1, BCL2, BAD, BID, MCL1, BIRC4, BCL2L1, ENDOG, YWHAB, and YWHAQ, influence promoter activity in an allele-specific manner.
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