

Recombinant Human Tyrosine 3-Monooxygenase/Tryptophan 5-Monooxygenase Activation Protein, Zeta Polypeptide, GST-tagged

Cat. No. YWHAZ-4900H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human YWHAZ was expressed in E. coli cells using an N-terminal GST tag.
Species	Human
Source	E.coli
Description	YWHAZ (also known as tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide) is a member of the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. YWHAZ protein plays a key role in cancer biology by being an important regulator of major cellular processes such as proliferation, differentiation, senescence and apoptosis. YWHAZ protein has been shown to interact with the IRS1 protein, suggesting a role for this protein in regulating insulin sensitivity by interrupting the association between the insulin receptor and IRS1.
Applications	Western Blot
Molecular Weight	55kDa
Expression System	E.coli
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM

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	glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Purity	>90 %
Concentration	0.2ug/ul
Sequences	Full-length
Storage	Store product at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	Adaptive Immunity Signaling; Alpha6-Beta4 Integrin Signaling Pathway; Calcium Regulation in the Cardiac Cell; Cell cycle; Class I PI3K signaling events mediated by Akt; Cytokine Signaling in Immune system; Destabilization of mRNA by KSRP; ErbB1 downstream signaling; Formation of Platelet plug; FoxO family signaling; GP1b-IX-V activation signalling; Hemostasis; IGF1 pathway; IL-3 Signaling Pathway; IL-5 Signaling Pathway

GENE INFORMATION

Gene Name	YWHAZ tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide [Homo sapiens]
Official Symbol	YWHAZ
Synonyms	YWHAZ; tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide; KCIP-1; MGC111427; MGC126532; MGC138156; phospholipase A2; 14-3-3 zeta; 14-3-3 protein/cytosolic phospholipase A2; Protein kinase C inhibitor protein 1; protein kinase C inhibitor protein-1; tyrosine 3/tryptophan 5 - monooxygenase activation protein, zeta polypeptide; OTTHUMP00000165851;

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OTTHUMP00000165852; OTTHUMP00000165854; OTTHUMP00000165858;
OTTHUMP00000165859; OTTHUMP00000165860; YWHAZ tyrosine 3-
monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide

Gene ID [7534](#)

mRNA Refseq [NM_001135699](#)

Protein Refseq [NP_001129171](#)

MIM [601288](#)

UniProt ID [P63104](#)

**Chromosome
Location** [8q23.1](#)

Function protein binding; protein domain specific binding; transcription factor binding

PDB rendering based
on 1a37.

