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

Cat. No. YWHAQ-4899H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human YWHAQ was expressed in E. coli cells using an N-terminal GST tag.
Species	Human
Source	E.coli
Description	YWHAQ (also known as tyrosine 3-monooxygenase/ tryptophan 5-monooxygenase activation protein, theta polypeptide) is a member of the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. Through interaction with ASK1, c-jun NH-terminal kinase, and p38 mitogen-activated protein kinase (MAPK), YWHAQ plays an important role in controlling apotopsis. Induced expression of YWHAQ protein has been reported in patients with amyotrophic lateral sclerosis. Additionally, YWHAQ has been observed to mediate nucleocytoplasmic shuttling of the N protein (coronavirus nucleocapsid protein) which causes severe acute respiratory syndrome.
Applications	Western Blot
Molecular Weight	56kDa
Expression System	E.coli

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Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl,10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Purity	>95 %
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	Cell cycle; Pathogenic Escherichia coli infection – EHEC; Pathogenic Escherichia coli infection - EPEC; Alpha6-Beta4 Integrin Signaling Pathway; Calcium Regulation in the Cardiac Cell; Class I PI3K signaling events mediated by Akt; ErbB1 downstream signaling; FoxO family signaling; IL-3 Signaling Pathway; Insulin-mediated glucose transport; LKB1 signaling events; Myometrial Relaxation and Contraction Pathways; Neurotrophin signaling pathway; Oocyte meiosis; Pathogenic Escherichia coli infection

GENE INFORMATION

Gene Name	YWHAQ tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide[Homo sapiens]
Official Symbol	YWHAQ
Synonyms	YWHAQ; tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide; 14-3-3 theta; 14-3-3 tau; 14-3-3 T-cell; HS1; 1C5;14-3-3; tyrosine 3/tryptophan 5 -monooxygenase activation protein, theta polypeptide protein tau; 14-

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	3-3 protein tau; OTTHUMP00000015730; 14-3-3 protein theta; 14-3-3 protein T-cell; Protein HS1; tyrosine 3/tryptophan 5 -monooxygenase activation protein,theta polypeptide
Gene ID	10971
mRNA Refseq	NM_006826
Protein Refseq	NP_006817
MIM	609009
UniProt ID	P27348
Chromosome Location	2p25.1
Function	protein N-terminus binding; protein domain specific binding; protein binding

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