YWHAE siRNA – 14-3-3 Protein Epsilon (Human)

PRODUCT OVERVIEW

Product Name	YWHAE, siRNA
Full Product Name	YWHAE siRNA (Human)
Product Gene Name	YWHAE sirna
Product Synonym Names	14-3-3 protein epsilon; 14-3-3E
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	YWHAE siRNA (Human) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Molecular Weight	26,504 Da
OMIM	605066
3D Structure	ModBase 3D Structure for P62258
Negative Control	siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection.
Quality Control	Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency.
Directions for Use	We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well).
Components	We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of human YWHAE gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo.
Applications Tested/Suitable for YWHAE sirna	RNA Interference (RNAi)
Related Product Information for YWHAE sirna	MBS8223261 is an siRNA targeting YWHAE. Also known as YWHAE siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit YWHAE expression using RNA interference
Other Notes	Small volumes of YWHAE sirna 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.

ADDITIONAL DETAILS

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

NCBI GI #	5803225
NCBI GeneID	7531
NCBI Accession #	NP_006752.1
UniProt Primary Accession #	P62258
UniProt Secondary Accession #	P29360; P42655; Q4VJB6; Q53XZ5; Q63631; Q7M4R4; B3KY71; D3DTH5
UniProt Related Accession #	P62258
GenBank Nucleotide #	NM_006761.4
NCBI Official Full Name	14-3-3 protein epsilon
NCBI Official Synonym Full Names	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon
NCBI Official Symbol	YWHAE
NCBI Official Synonym Symbols	MDS; HEL2; MDCR; KCIP-1; 14-3-3E
UniProt Protein Name	14-3-3 protein epsilon
Protein Family	14-3-3 protein
UniProt Gene Name	YWHAE
UniProt Synonym Gene Names	14-3-3E
UniProt Entry Name	1433E_HUMAN
NCBI Protein Information	14-3-3 protein epsilon
NCBI Summary for YWHAE	This gene product belongs to the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. This highly conserved protein family is found in both plants and mammals, and this protein is 100% identical to the mouse ortholog. It interacts with CDC25 phosphatases, RAF1 and IRS1 proteins, suggesting its role in diverse biochemical activities related to signal transduction, such as cell division and regulation of insulin sensitivity. It has also been implicated in the pathogenesis of small cell lung cancer. Two transcript variants, one protein-coding and the other non-protein-coding, have been found for this gene. [provided by RefSeq, Aug 2008]
UniProt Comments for YWHAE	14-3-3 epsilon: a protein of the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. A multifunctional regulator of the cell signaling processes. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 17p13.3 Cellular Component: kinesin complex; focal adhesion; cytoplasmic vesicle membrane; membrane; mitochondrion; axon; melanosome; cytosol Molecular Function: protein domain specific binding; protein binding; potassium channel regulator activity; enzyme binding; protein heterodimerization activity; histone deacetylase binding; phosphoprotein binding; phosphoserine binding Biological Process: viral reproduction; nerve growth factor receptor signaling pathway; apoptosis; organelle organization and biogenesis; hippocampus development; neuron migration; regulation of caspase activity; regulation of the rate of heart contraction by hormone; substantia nigra development; cerebral cortex development; mitotic cell cycle; G2/M transition of mitotic cell cycle; protein targeting Disease: Miller-dieker Lissencephaly Syndrome
Research Articles on YWHAE	**1.** These data demonstrate a novel role for HDAC6 in controlling 14-3-3zeta binding activity.

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