

Active Recombinant Human YES1, GST-tagged

Cat. No. YES1-1509H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full-length recombinant human YES1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	YES1 is the cellular homolog of the Yamaguchi sarcoma virus oncogene that has tyrosine kinase activity and belongs to the SRC family. YES1 lies in close proximity to thymidylate synthase gene on chromosome 18 and chromosome 22. The activation of YES1 may play a significant role in the malignant transformation of hepatocytes, and is important for maintaining embryonic stem cells in an undifferentiated state. YES1 is a useful marker to detect early-stage hepatocellular carcinoma, and it plays a key role in the tumorigenesis and metastasis of gastric cancer. YES1 induction results in increased cancer cell motility suggesting that YES1 may promote cancer spread and metastasis rather than tumor growth.
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.
Bio-activity	185 nmol/min/mg
Molecular Mass	~91 kDa

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Purity	>80%
Applications	Kinase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1µg/µl
GENE INFORMATION	
Gene Name	YES1 v-yes-1 Yamaguchi sarcoma viral oncogene homolog 1 [Homo sapiens]
Official Symbol	YES1
Synonyms	YES1; v-yes-1 Yamaguchi sarcoma viral oncogene homolog 1; tyrosine-protein kinase Yes; c yes; HsT441; Yes; proto-oncogene c-Yes; cellular yes-1 protein; Yamaguchi sarcoma oncogene; proto-oncogene tyrosine-protein kinase YES; c-yes; P61-YES;
Gene ID	7525
mRNA Refseq	NM_005433
Protein Refseq	NP_005424
MIM	164880
UniProt ID	P07947
Chromosome	18p11.31-p11.21

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Location	
Pathway	Adaptive Immune System, organism-specific biosystem; Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Alpha-synuclein signaling, organism-specific biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; CD28 co-stimulation, organism-specific biosystem; CDC42 signaling events, organism-specific biosystem;
Function	ATP binding; ion channel binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protein tyrosine kinase activity;

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