

Product datasheet for TP507498

Shc1 (NM_011368) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse src homology 2 domain-containing transforming protein C1 (Shc1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR207498 protein sequence Red =Cloning site Green =Tags(s)
	<p>MNKLSGGGRRTRVEGGQLGGEWTRHGSFVNKPTRGWLHPNDKVMGPGVSYLVRYMGCVEVLQSMRALD FNTRTQVTREAI SLVCEAVPGAKGATRRRKPCSRPLSSILGRSNLKFAGMPITLTVSTSSLNLMAADCKQ IIANHHMQSISFASGGDPDTAEYVAYVAKDPVNQRACHILECPEGLAQDVISTIGQAFELRFKQYLRNPP KLVTPHDRAMAGFDGSAWDEEEEEPPDHQYYNDFPGKEPPLGGVDMRLREGAARPTLPSAQMSSHLGATL PIGQHAAGDHEVRKQMLPPPPCPGRELFDDPSYVNIQNLDKARQAGGGAGPPNPSLNGSAPRDLFDMKPF EDALRVPPPPQSMSMAEQLQGEPWFH GKLSRREAEALLQLNGDFL VRESTTTPGQYVLTGLQSGQP KHL L LVDPEGVVRTKDH RFESVSHLISYHMDNHLPIISAGSELCLQQPVDRKV</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-MYC/DDK
Predicted MW:	51.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_035498
Locus ID:	20416



[View online »](#)

UniProt ID: [P98083](#)

RefSeq Size: 3171

Cytogenetics: 3 39.11 cM

RefSeq ORF: 1410

Synonyms: p66; p66shc; Shc; ShcA

Summary: Signaling adapter that couples activated growth factor receptors to signaling pathways. Participates in signaling downstream of the angiopoietin receptor TEK/TIE2, and plays a role in the regulation of endothelial cell migration and sprouting angiogenesis (By similarity). Participates in a signaling cascade initiated by activated KIT and KITLG/SCF. Isoform p47Shc and isoform p52Shc, once phosphorylated, couple activated receptor kinases to Ras via the recruitment of the GRB2/SOS complex and are implicated in the cytoplasmic propagation of mitogenic signals. Isoform p47Shc and isoform p52 may thus function as initiators of the Ras signaling cascade in various non-neuronal systems. Isoform p66Shc does not mediate Ras activation, but is involved in signal transduction pathways that regulate the cellular response to oxidative stress and life span. Isoform p66Shc acts as a downstream target of the tumor suppressor p53 and is indispensable for the ability of stress-activated p53 to induce elevation of intracellular oxidants, cytochrome c release and apoptosis. The expression of isoform p66Shc has been correlated with life span. [UniProtKB/Swiss-Prot Function]