

## Product datasheet for **TP761262**

### SPDYA (NM\_182756) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human speedy homolog A ( <i>Xenopus laevis</i> ) (SPDYA), transcript variant 1, full length, with N-terminal HIS tag, expressed in <i>E. coli</i> , 50ug
Species:	Human
Expression Host:	<i>E. coli</i>
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding human full-length SPDYA
Tag:	N-His
Predicted MW:	36.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	50 mM Tris-HCl, pH 8.0, 8 M urea
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.
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:	<a href="#">NP_877433</a>
Locus ID:	245711
UniProt ID:	<a href="#">Q5MJ70</a> , <a href="#">A0A384MTT5</a>
RefSeq Size:	1830
Cytogenetics:	2p23.2
RefSeq ORF:	939
Synonyms:	RINGO3; RINGOA; SPDY1; SPY1



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**Summary:**

Regulates the G1/S phase transition of the cell cycle by binding and activating CDK1 and CDK2 (PubMed:12972555). Contributes to CDK2 activation without promoting CDK2 phosphorylation, by inducing a conformation change of the CDK2 T-loop that obstructs the substrate-binding cleft prior to kinase activation (PubMed:28666995). Mediates cell survival during the DNA damage process through activation of CDK2 (PubMed:12839962). [UniProtKB/Swiss-Prot Function]

**Protein Pathways:**

Oocyte meiosis, Progesterone-mediated oocyte maturation

**Product images:**