

## Product datasheet for **TP526695**

### Sh2d1a (NM\_011364) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse SH2 domain containing 1A (Sh2d1a), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	A DNA sequence from Mouse cDNA ORF Clone, MR226695, encoding Mouse full-length Sh2d1a.
Tag:	C-MYC/DDK
Predicted MW:	14.4 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:	<a href="#">NP_035494</a>
Locus ID:	20400
UniProt ID:	<a href="#">O88890</a> , <a href="#">Q544F1</a>
RefSeq Size:	819
Cytogenetics:	X A4
RefSeq ORF:	378
Synonyms:	Gm686; SAP



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**Summary:**

Cytoplasmic adapter regulating receptors of the signaling lymphocytic activation molecule (SLAM) family such as SLAMF1, CD244, LY9, CD84, SLAMF6 and SLAMF7. In SLAM signaling seems to cooperate with SH2D1B/EAT-2. Initially it has been proposed that association with SLAMF1 prevents SLAMF1 binding to inhibitory effectors including INPP5D/SHIP1 and PTPN11/SHP-2. However, by simultaneous interactions, recruits FYN which subsequently phosphorylates and activates SLAMF1 (By similarity). Positively regulates CD244/2B4- and CD84-mediated natural killer (NK) cell functions (PubMed:22683124). Can also promote CD48-, SLAMF6-, LY9-, and SLAMF7-mediated NK cell activation (PubMed:19648922). In the context of NK cell-mediated cytotoxicity enhances conjugate formation with target cells (PubMed:22683124). May also regulate the activity of the neurotrophin receptors NTRK1, NTRK2 and NTRK3.[UniProtKB/Swiss-Prot Function]