



# Recombinant Rat Midline-1 (Mid1)

<b>Product Code</b>	CSB-MP013819RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P82458
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	METLESELTCPICLELFEDP LLLPCAHS LC FNCAHRILVS HCATNEPVES INAFQCPTCR HVITLSQRGL DGLKRNVT LQ NIIDRFQKAS VSGPNSPSET RRERAFDANT MSSAEKVLCQ FCDQDPAQDA VKTCVTCEVS YCDECLKATH PNKKPFTGHR LIEPIPDSHI RGLMCLEHED EKVNMVCVTD DQLICALCKL VGRHRDHQVA ALSERYDKLK QNLESNLTNL IKRNTELETL LAKLIQTCQH VEVNASRQEA KLTEECDLLI EIIQERRQII GTKIKEGKVM RLRKLAQQIA NCKQCIERSA SLISQAEHSL KENDHARFLQ TAKNITERVS MATASSQVLI PEINLNDTFD TFALDFSREK KLL ECLDYLT APNPPTIREE LCTASYDTIT VHWTSDDEFS VVS YELQYTI FTGQANVVSL CNSADSWMIV PNIKQNH YTV HGLQSGTKYI FMVKAINQAG SRSSEPGK LK TNSQPFK LDP KSAHRK LKVS HDNLTVERDE SSSKKSHTPE RFTSQGSYGV AGNVFIDSGR HYWEVVISGS TWYAIGLAYK SAPKHEWIGK NSASWALCRC NNNWVVRHNS KEIPIEPAPH PRRVGILLDY DNGSIAFYDA LNSIHLYTFD VALAQVCPT FTVWNKCLTI ITGLPIPDHL DCTEQLP
<b>Source</b>	Mammalian cell
<b>Target Names</b>	Mid1
<b>Protein Names</b>	Recommended name: Midline-1 Alternative name(s): Tripartite motif-containing protein 18
<b>Expression Region</b>	1-667
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	This protein is a member of the tripartite motif (TRIM) family, also known as the RING-B box-coiled coil (RBCC) subgroup of RING finger proteins. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. This protein forms homodimers which associate with microtubules in the cytoplasm. The protein is likely involved in the formation of multiprotein structures acting as anchor points to microtubules. Mutations in this gene have been associated with the X-linked form of Opitz syndrome, which is characterized by midline abnormalities such as cleft lip, laryngeal cleft, heart defects, hypospadias, and agenesis of the corpus callosum. This gene was also the first example of a gene subject to X inactivation in human while escaping it in mouse. Several different transcript variants are generated by alternate



splicing; however, the full-length nature of some of the variants has not been determined.

---

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

---

**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.