

# Recombinant Human MID1

**Cat. No.** MID1-30200TH    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant fragment of Human MID1 with N-terminal proprietary tag, 36.63 kDa.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	100 amino acids
<b>Description</b>	<p>The protein encoded by this gene 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. Multiple different transcript variants are generated by alternate splicing; however, the full-length nature of some of the variants has not been determined.</p>
<b>Molecular Weight</b>	36.630kDa inclusive of tags
<b>Tissue specificity</b>	In the fetus, highest expression found in kidney, followed by brain and lung. Expressed at low levels in fetal liver. In the adult, most abundant in heart, placenta

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	and brain.
<b>Form</b>	Liquid
<b>Purity</b>	Proprietary Purification
<b>Storage buffer</b>	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	PNIKQNHVTVHGLQSGTKYIFMVKAINQAGSRSSSEPGKLTNSQPFLDKPSAHRKLVKSHDNLTVRDESSSKSHTPERFTSQGSYGVAGNVFIDSGR
<b>Sequence Similarities</b>	Belongs to the TRIM/RBCC family. Contains 2 B box-type zinc fingers. Contains 1 B30.2/SPRY domain. Contains 1 COS domain. Contains 1 fibronectin type-III domain. Contains 1 RING-type zinc finger.

## GENE INFORMATION

<b>Gene Name</b>	MID1 midline 1 (Opitz/BBB syndrome) [ Homo sapiens ]
<b>Official Symbol</b>	MID1
<b>Synonyms</b>	MID1; midline 1 (Opitz/BBB syndrome); midline-1; FXY; OS; RNF59; TRIM18;
<b>Gene ID</b>	4281
<b>mRNA Refseq</b>	NM_000381
<b>Protein Refseq</b>	NP_000372

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<b>MIM</b>	300552
<b>Uniprot ID</b>	O15344
<b>Chromosome Location</b>	Xp22
<b>Pathway</b>	Ubiquitin mediated proteolysis, organism-specific biosystem; Ubiquitin mediated proteolysis, conserved biosystem;
<b>Function</b>	ligase activity; metal ion binding; ubiquitin protein ligase binding; zinc ion binding;

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