Recombinant Human MID1

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

SPECIFICATION

Product Overview	Recombinant fragment of Human MID1 with N-terminal proprietary tag, 36.63 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	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.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	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.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	PNIKQNHYTVHGLQSGTKYIFMVKAINQAGSRSSEPGKLKTNSQPFKLDPKSAHRKL KVSHDNLTVERDESSSKKSHTPERFTSQGSYGVAGNVFIDSGR
Sequence Similarities	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

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

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

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