TRI18 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	TRI18, Blocking Peptide
Full Product Name	TRI18 Blocking Peptide
Product Gene Name	TRI18 blocking peptide
Product Synonym Gene Name	MID1
Product Synonym Names	BBBG 1; BBBG1; E3 ubiquitin-protein ligase Midline-1; Finger on X and Y mouse homolog of; FXY; GBBB 1; GBBB1; MID 1; Mid1; Midin; Midline 1 (Opitz/BBB syndrome); Midline 1; Midline 1 ring finger; Midline 1 RING finger protein; Midline-1; Midline1; OGS 1; OGS1; OS; OSX; Putative transcription factor XPRF; RING finger protein 59; RING finger protein Midline-1; RNF 59; RNF59; TRI18; TRI18_HUMAN; TRIM 18; TRIM18; Tripartite motif containing protein 18; Tripartite motif protein TRIM18; Tripartite motif-containing protein 18; XPRF; zinc finger on X and Y, mouse, homolog of; Zinc finger X and Y; ZNFXY
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	TRI18 peptide (MBS9623198) is used for blocking the activity of TRI18 antibody (MBS9604481)
Molecular Weight	75,251 Da
Chromosome Location	Chromosome: X; NC_000023.10 (10413350..10851809, complement). Location: Xp22
OMIM	300000
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for TRI18 blocking peptide	Blocking/Control
Related Product Information for TRI18 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of TRI18 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TRI18 purchase	MBS9623198 is a blocking peptide targeting TRI18.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRI18. It may not necessarily be applicable to this product.

NCBI GI #	4557753

NCBI GeneID	4281
NCBI Accession #	NP_000372.1
UniProt Primary Accession #	O15344
UniProt Secondary Accession #	O75361; Q9BZX5; B2RCG2
UniProt Related Accession #	O15344
GenBank Nucleotide #	NM_000381.3
NCBI Official Full Name	midline-1 isoform 1
NCBI Official Synonym Full Names	midline 1 (Opitz/BBB syndrome)
NCBI Official Symbol	MID1
NCBI Official Synonym Symbols	OS; FXY; OSX; OGS1; XPRF; BBBG1; GBBB1; MIDIN; RNF59; ZNFXY; TRIM18
UniProt Protein Name	Midline-1
UniProt Synonym Protein Names	Midin; Midline 1 RING finger protein; Putative transcription factor XPRF; RING finger protein 59; Tripartite motif-containing protein 18
UniProt Gene Name	MID1
UniProt Synonym Gene Names	FXY; RNF59; TRIM18; XPRF
UniProt Entry Name	TRI18_HUMAN
NCBI Protein Information	midline-1; RING finger protein 59; midline 1 RING finger protein; tripartite motif protein TRIM18; putative transcription factor XPRF; tripartite motif-containing protein 18; zinc finger on X and Y, mouse, homolog of
NCBI Summary for TRI18	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. [provided by RefSeq, Jul 2010]
UniProt Comments for TRI18	MID1: Has E3 ubiquitin ligase activity towards IGBP1, promoting its monoubiquitination, which results in deprotection of the catalytic subunit of protein phosphatase PP2A, and its subsequent degradation by polyubiquitination. Defects in MID1 are the cause of Opitz GBBB syndrome 1 (OGS1). A congenital midline malformation syndrome characterized by hypertelorism, genital-urinary defects such as hypospadias in males and splayed labia in females, lip-palate- laryngotracheal clefts, imperforate anus, developmental delay and congenital heart defects. MID1 mutations produce proteins with a decreased affinity for microtubules. Belongs to the TRIM/RBCC family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 6.3.2.19; Cytoskeletal; Ubiquitin ligase; Ligase; Ubiquitin conjugating system; EC 6.3.2.- Chromosomal Location of Human Ortholog: Xp22 Cellular Component: microtubule; microtubule associated complex; cytoplasmic microtubule; spindle; cytosol Molecular Function: protein homodimerization activity; zinc ion binding; protein heterodimerization activity; microtubule binding; ubiquitin protein ligase binding; phosphoprotein binding; ligase activity Biological Process: negative regulation of microtubule depolymerization; metabolic process; cytokine and chemokine mediated signaling pathway; microtubule cytoskeleton organization and biogenesis; pattern specification process; positive regulation of stress-activated MAPK cascade Disease: Tracheoesophageal Fistula With Or Without Esophageal Atresia; Opitz Gbbb Syndrome, X-linked

Research Articles on TRI18	**1.** found that MID1 was upregulated in primary human bronchial epithelial cells
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