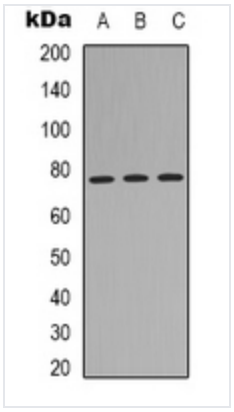
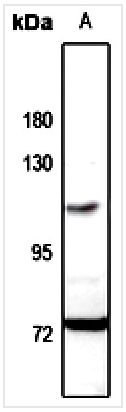
MID1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

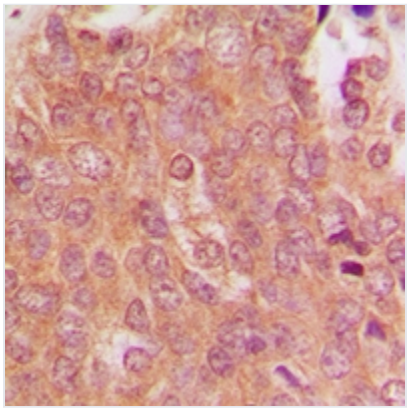
Product Name	MID1, Polyclonal Antibody
Full Product Name	Anti-MID1 Antibody
Product Gene Name	anti-MID1 antibody
Product Synonym Names	FXY; RNF59; TRIM18; XPRF; E3 ubiquitin-protein ligase Midline-1; Midin; Putative transcription factor XPRF; RING finger protein 59; RING finger protein Midline-1; Tripartite motif-containing protein 18
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat, Dog, Monkey
Form/Format	Liquid in 0.42% Potassium Phosphate, 0.87% Sodium Chloride, pH 7.3, 30% Glycerol, and 0.01% Sodium Azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of MID1 protein.
Preparation and Storage	Upon receipt aliquot and store at -20°C for one year. Avoid freeze/thaw cycles.
Antibody/Peptide Pairs	MID1 peptide (MBS8243500) is used for blocking the activity of MID1 antibody (MBS8242886)
OMIM	300000
3D Structure	ModBase 3D Structure for O15344
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human MID1. The exact sequence is proprietary.
Applications Tested/Suitable for anti-MID1 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)
Application Notes for anti-MID1 antibody	Western Blot: (1/500 - 1/1000); Immunohistochemistry: (1/100 - 1/200); Immunofluorescence/Immunocytochemistry: (1/100 - 1/500)
Related Product Information for anti-MID1 antibody	MBS8242886 is an antibody targeting MID1. Reactive in Human, Mouse, Rat, Dog, Monkey. Host: Rabbit. Rabbit polyclonal antibody to MID1
Other Notes	Small volumes of anti-MID1 antibody 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.



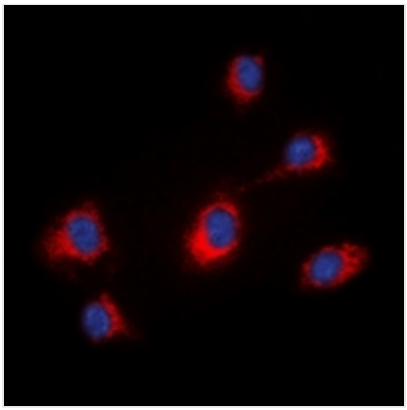
Western Blot (WB) of anti-MID1 antibody
Western blot analysis of MID1 expression in HEK293T (A), A431 (B), Hela (C) whole cell lysates.



Western Blot (WB) of anti-MID1 antibody
Western blot analysis of MID1 expression in HEK293T (A) whole cell lysates.



Immunohistochemistry (IHC) of anti-MID1 antibody
Immunohistochemical analysis of MID1 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescence (IF) of anti-MID1 antibody
Immunofluorescent analysis of MID1 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MID1. It may not necessarily be applicable to this product.

NCBI GI #	22653810
NCBI GeneID	4281
NCBI Accession #	O15344.1
UniProt Primary Accession #	O15344
UniProt Secondary Accession #	O75361; Q9BZX5; B2RCG2
UniProt Related Accession #	O15344
NCBI Official Full Name	E3 ubiquitin-protein ligase Midline-1
NCBI Official Synonym Full Names	midline 1
NCBI Official Symbol	MID1
NCBI Official Synonym Symbols	OS; FXY; OSX; OGS1; XPRF; BBBG1; GBBB1; MIDIN; RNF59; ZNFXY; TRIM18
UniProt Protein Name	E3 ubiquitin-protein ligase Midline-1

UniProt Synonym Protein Names	Midin; Putative transcription factor XPRF; RING finger protein 59; RING finger protein Midline-1; Tripartite motif-containing protein 18
Protein Family	Division mal foutue 1 protein
UniProt Gene Name	MID1
UniProt Synonym Gene Names	FXY; RNF59; TRIM18; XPRF
UniProt Entry Name	TRI18_HUMAN
NCBI Protein Information	E3 ubiquitin-protein ligase Midline-1
NCBI Summary for MID1	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 MID1	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: Ubiquitin ligase; Cytoskeletal; EC 6.3.2.19; EC 6.3.2.-; Ligase; Ubiquitin conjugating system Chromosomal Location of Human Ortholog: Xp22 Cellular Component: cytoplasmic microtubule; cytosol; microtubule; microtubule associated complex; spindle Molecular Function: identical protein binding; ligase activity; microtubule binding; phosphoprotein binding; protein binding; protein heterodimerization activity; protein homodimerization activity; ubiquitin protein ligase binding; zinc ion binding Biological Process: cytokine and chemokine mediated signaling pathway; metabolic process; microtubule cytoskeleton organization and biogenesis; negative regulation of microtubule depolymerization; pattern specification process; positive regulation of stress-activated MAPK cascade Disease: Opitz Gbbb Syndrome, X-linked; Tracheoesophageal Fistula With Or Without Esophageal Atresia
Research Articles on MID1	**1.** MID1 catalyzes the ubiquitination of protein phosphatase 2A and mutations within its Bbox1 domain disrupt polyubiquitination of alpha4 but not of PP2Ac in X-linked Opitz syndrome.
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