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Rabbit Anti-RNF59/MID1 antibody

SL9380R

Product Name:	RNF59/MID1
Chinese Name:	Ring finger protein59抗体
Alias:	BBBG 1; BBBG1; Finger on X and Y mouse homolog of antibody; FXY; GBBB 1; GBBB1; MID 1; 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 antibody; OSX; Putative transcription factor XPRF; RING finger protein 59; 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 X and Y antibody; ZNFXY.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Horse,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	75kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human MID1/Midline-1/RNF59:171-270/667
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

Product Detail:	Midline-1 (Tripartite motif-containing protein 18, Putative transcription factor XPRF, RING finger protein 59) is a 667 amino acid protein encoded by the human gene MID1. Midline-1 belongs to the TRIM/RBCC family and contains two B box-type zinc fingers, one B30.2/SPRY domain, one COS domain, one fibronectin type-III domain and one RING-type zinc finger. Midline-1 is believed to have E3 ubiquitin ligase activity which targets the catalytic subunit of protein phosphatase 2 for degradation. It is a cytoplasmic protein found as a homodimer or heterodimer with Midline-2. It also interacts with IGBP1 (Lymphocyte signaling protein A4). Defects in MID1 are the cause of Opitz syndrome type I (OS-I). OS-I is an X-linked recessive disorder 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. OS-I mutations produce proteins with a decreased affinity for microtubules. **Function:** 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. **Subunit:** Homodimer or heterodimer with MID2. Interacts with IGBP1. **Subcellular Location:** Cytoplasm. **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 and brain. **Post-translational modifications:** Phosphorylated on serine and threonine residues. **DISEASE:** Defects in MID1 are the cause of Opitz GBBB syndrome 1 (OGS1) [MIM:300000]. 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. Note=MID1 mutations produce proteins with a decreased affinity for microtubules. **Similarity:** 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. [SIMILARITY] Contains 1 RING-type zinc

finger.

SWISS:
O15344

Gene ID:
4281

Database links:

Entrez Gene: 4281Human

Entrez Gene: 17318Mouse

Entrez Gene: 54252Rat

Omim: 300552Human

SwissProt: O15344Human

SwissProt: O70583Mouse

SwissProt: P82458Rat

Unigene: 27695Human

Unigene: 689953Human

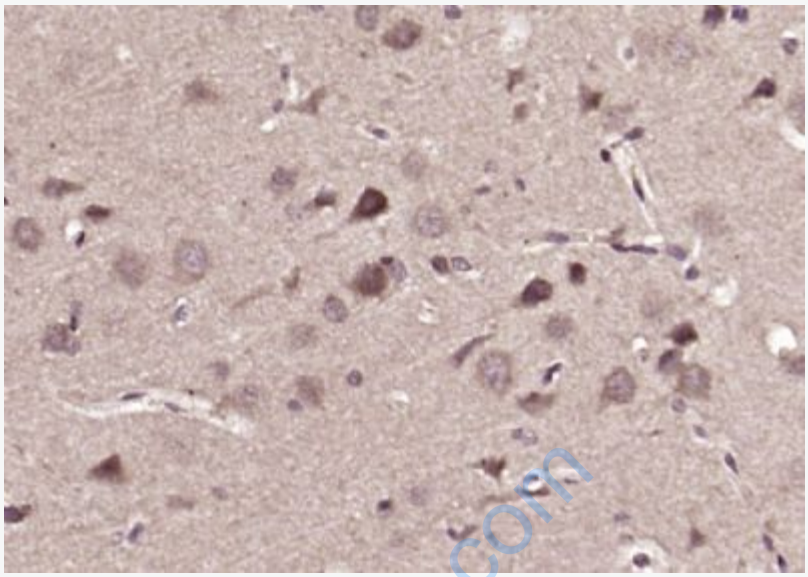
Unigene: 34441Mouse

Unigene: 444905Mouse

Unigene: 460870Mouse

Unigene: 15169Rat

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:	 Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RNF59/MID1) Polyclonal Antibody, Unconjugated (SL9380R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.