For Research Use Only

## SMCR7L Monoclonal antibody, PBS Only



**Purification Method:** 

Protein A purification

CloneNo.:

3B3G3

Catalog Number: 67808-1-PBS

**Basic Information** 

Catalog Number: 67808-1-PBS

 67808-1-PBS
 BC002587

 Size:
 GeneID (NCBI):

 1 mg/ml
 54471

 Source:
 UNIPROT ID:

 Add to the control of the

Source: UNIPROT II
Mouse Q9NQG6
Isotype: Full Name:

IgG2b Smith-Magenis syndrome

Immunogen Catalog Number: chromosome region, candidate 7-like

48-51 kDa

AG13775 Calculated MW: 463 aa, 51 kDa
Observed MW:

**Applications** 

Tested Applications: WB,IF,IHC,Indirect ELISA Species Specificity: Human, mouse, rat

**Background Information** 

Human SMCR7L gene encodes, MID51, the mitochondrial dynamic protein of 51 kDa (also called mitochondrial elongation factor 1, MIEF1). MID51 is a single-pass membrane protein anchored to the mitochondrial outer membrane and regulates mitochondrial morphology. Mitochondrial morphology is controlled by two opposing processes: fusion and fission. Elevated MID51 levels induce extensive mitochondrial fusion, whereas depletion of MID51 causes mitochondrial fragmentation. MID51 interacts with and recruits Drp1 to mitochondria, suggesting a critical role of MID51 in regulation of mitochondrial fusion-fission machinery in vertebrates.

GenBank Accession Number:

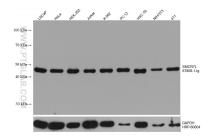
Storage

Storage: Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C Storage Buffer:

PBS Only

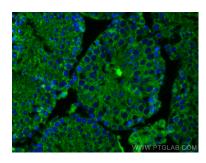
## **Selected Validation Data**



Various lysates were subjected to SDS PAGE followed by western blot with 67808-1-lg (SMCR7L/MID51 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control. This data was developed using the same antibody clone with 67808-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded mouse testis tissue slide using 67808-1-Ig (SMCR7L/MID51 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 67808-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using SMCR7L/MID51 antibody (67808-1-Ig, Clone: 3B3G3) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 67808-1-PBS in a different storage buffer formulation.