

**FAM96B Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP59364****Specification**

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**FAM96B Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	<a href="#">O9Y3D0</a>
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	18 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FAM96B
Epitope Specificity	51-150/165
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus. Cytoplasm, cytoskeleton, spindle.
SIMILARITY	Belongs to the MIP18 family.
SUBUNIT	Component of the CIA complex. Component of the MMXD complex, which includes CIAO1, ERCC2, FAM96B, MMS19 and SLC25A5. Interacts with ERCC2 and MMS19; the interaction is direct.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

Chromosome 16 encodes over 900 genes in approximately 90 million base pairs, makes up nearly 3% of human cellular DNA and is associated with a variety of genetic disorders. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. The rare disorder Rubinstein-Taybi syndrome is also associated with chromosome 16, though through the CREBBP gene which encodes a critical CREB binding protein. Signs of Rubinstein-Taybi include mental retardation and predisposition to tumor growth and white blood cell neoplasias. Crohn's disease is a gastrointestinal inflammatory condition associated with chromosome 16 through the NOD2 gene. An association with systemic lupus erythematosus and a number of other autoimmune disorders with the pericentromeric region of chromosome 16 has led to the identification of SLC5A11 as a potential autoimmune modifier. The FAM96B gene product has been provisionally designated FAM96B pending further characterization.

**FAM96B Polyclonal Antibody - Additional Information****Gene ID 51647**

### Other Names

Cytosolic iron-sulfur assembly component 2B, MSS19-interacting protein of 18 kDa, Mitotic spindle-associated MMXD complex subunit MIP18, Protein FAM96B, CIAO2B ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=24261](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=24261) target="\_blank">HGNC:24261</a>)

### Dilution

<span class = "dilution\_WB">WB~~1:1000</span><br \><span class = "dilution\_IHC-P">IHC-P~~N/A</span><br \><span class = "dilution\_IHC-F">IHC-F~~N/A</span><br \><span class = "dilution\_IF">IF~~1:50~200</span><br \><span class = "dilution\_E">E~~N/A</span>

### Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

## FAM96B Polyclonal Antibody - Protein Information

Name CIAO2B ([HGNC:24261](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=24261))

### Function

Component of the cytosolic iron-sulfur protein assembly (CIA) complex, a multiprotein complex that mediates the incorporation of iron-sulfur cluster into extramitochondrial Fe/S proteins (PubMed:<a href="http://www.uniprot.org/citations/22678361" target="\_blank">22678361</a>, PubMed:<a href="http://www.uniprot.org/citations/22678362" target="\_blank">22678362</a>, PubMed:<a href="http://www.uniprot.org/citations/23891004" target="\_blank">23891004</a>, PubMed:<a href="http://www.uniprot.org/citations/29848660" target="\_blank">29848660</a>). As a CIA complex component and in collaboration with CIAO1 and MMS19, binds to and facilitates the assembly of most cytosolic-nuclear Fe/S proteins (PubMed:<a href="http://www.uniprot.org/citations/23891004" target="\_blank">23891004</a>, PubMed:<a href="http://www.uniprot.org/citations/29848660" target="\_blank">29848660</a>). As part of the mitotic spindle-associated MMXD complex it plays a role in chromosome segregation, probably by facilitating iron-sulfur cluster assembly into ERCC2/XPD (PubMed:<a href="http://www.uniprot.org/citations/20797633" target="\_blank">20797633</a>). Together with MMS19, facilitates the transfer of Fe-S clusters to the motor protein KIF4A, which ensures proper localization of KIF4A to mitotic machinery components to promote the progression of mitosis (PubMed:<a href="http://www.uniprot.org/citations/29848660" target="\_blank">29848660</a>).

### Cellular Location

Nucleus. Cytoplasm, cytoskeleton, spindle. Midbody Note=In mitosis, localizes to the spindle during metaphase and the spindle midbody during telophase (PubMed:29848660). Co-localizes with KIF4A to the spindle midzone and midbody during telophase and cytokinesis (PubMed:29848660).

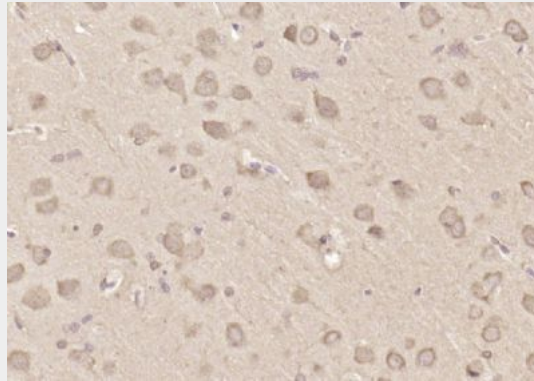
## FAM96B Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **FAM96B Polyclonal Antibody - Images**



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 (FAM96B) Polyclonal Antibody, Unconjugated (bs-9729R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.