

#86302 Store at -20°C

**FAM96B (D4V9Z) Rabbit mAb****Cell Signaling**  
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**For Research Use Only. Not for Use in Diagnostic Procedures.**

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source/Isotype: | UniProt ID: | Entrez-Gene Id: |
|---------------|-------------|--------------|-----------|-----------------|-------------|-----------------|
| WB            | H M R       | Endogenous   | 18        | Rabbit IgG      | #Q9Y3D0     | 51647           |

**Product Usage Information****Application**

Western Blotting

**Dilution**

1:1000

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

**Specificity / Sensitivity**

FAM96B (D4V9Z) Rabbit mAb recognizes endogenous levels of total FAM96B protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln21 of human FAM96B protein.

**Background**

Iron-sulfur (Fe-S) clusters (ISC) are cofactors for many proteins that display a wide range of biological functions, such as DNA maintenance, transcription, translation, cellular metabolism, electron transport, and oxidative phosphorylation (1). While structurally simple, the synthesis and insertion of ISC into Fe-S proteins are complex processes that involve many different proteins (2). FAM96B, also known as MIP18 (MSS19-interacting protein of 18kDa), is a component of the cytosolic Fe-S protein assembly complex (3,4). FAM96B is in a complex with MMS19 that is responsible for assembly of multiple nuclear Fe-S proteins involved in DNA metabolism (5).

**Background References**

1. Wang, J. and Pantopoulos, K. (2011) *Biochem J* 434, 365-81.
2. Netz, D.J. et al. (2014) *Trends Cell Biol* 24, 303-12.
3. van Wietmarschen, N. et al. (2012) *J Biol Chem* 287, 43351-8.
4. Stehling, O. et al. (2013) *Cell Metab* 18, 187-98.
5. Gari, K. et al. (2012) *Science* 337, 243-5.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key****WB:** Western Blotting**Cross-Reactivity Key**

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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