

Store at
-20C
#86302**FAM96B (D4V9Z) Rabbit mAb**

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For Research Use Only. Not for Use in Diagnostic Procedures.

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

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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