

## Product Information

### MemDX™ Antibody Discovery - Human FKBP4 / FKBP52 (1-459) Membrane Protein, Partial, -His -PA tag

Cat. No.: **MP0076F**

This product is for research use only and is not intended for diagnostic use.

This membrane protein is Human FKBP4 / FKBP52 (1-459). It has been tested in SDS-PAGE. We provide this protein to facilitate your membrane protein antibody discovery and development.

#### Product Specifications

##### Host Species

Human

##### Target Protein

FKBP4 / FKBP52

##### Protein Length

ECD

##### Molecular Weight

This protein carries a polyhistidine tag at the C-terminus, followed by a PA tag, and has a calculated MW of 55.1 kDa. The reducing (R) protein migrates as 60 kDa in SDS-PAGE.

##### Sequence

AA Met 1 - Ala 459 (Accession # AAH01786).

#### Product Description

##### Application

SDS-PAGE

##### Expression Systems

HEK293

##### Tag

His tag at the C-terminus, followed by a PA tag

##### Protein Format

Soluble

##### Form

LYOPH

##### Reconstitution

Please see Certificate of Analysis for specific instructions.

**Endotoxin**

<1.0 EU/μg by the LAL method

**Purity**

>90% as determined by SDS-PAGE.

**Buffer**

Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5. Normally trehalose is added as protectant before lyophilization.

**Storage**

Stored at lyophilized form at -20°C or lower. Avoid repeated freeze-thaw cycles.

The antigen can be stable for 12 months in lyophilized form after storage at -20°C to -80°C, 3 months under sterile conditions after reconstitution after storage at -80°C.

**Target****Target Protein**

FKBP4 / FKBP52

**Full Name**

FKBP prolyl isomerase 4

**Introduction**

The protein encoded by this gene is a member of the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. This encoded protein is a cis-trans prolyl isomerase that binds to the immunosuppressants FK506 and rapamycin. It has high structural and functional similarity to FK506-binding protein 1A (FKBP1A), but unlike FKBP1A, this protein does not have immunosuppressant activity when complexed with FK506. It interacts with interferon regulatory factor-4 and plays an important role in immunoregulatory gene expression in B and T lymphocytes. This encoded protein is known to associate with phytanoyl-CoA alpha-hydroxylase. It can also associate with two heat shock proteins (hsp90 and hsp70) and thus may play a role in the intracellular trafficking of hetero-oligomeric forms of the steroid hormone receptors. This protein correlates strongly with adeno-associated virus type 2 vectors (AAV) resulting in a significant increase in AAV-mediated transgene expression in human cell lines. Thus this encoded protein is thought to have important implications for the optimal use of AAV vectors in human gene therapy. The human genome contains several non-transcribed pseudogenes similar to this gene.

**Alternative Names**

HBI; p52; Hsp56; FKBP51; FKBP52; FKBP59; PPIase; peptidyl-prolyl cis-trans isomerase FKBP4; FK506 binding protein 4, 59kDa; HSP binding immunophilin; T-cell FK506-binding protein, 59kD; peptidylprolyl cis-trans isomerase; rotamase

**Gene ID**

[2288](#)

**UniProt ID**

[Q02790](#)