



# SZABO SCANDIC

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## Datasheet

### FKBP1A (Human) Recombinant Protein (P01)

**Catalog Number:** H00002280-P01

**Regulation Status:** For research use only (RUO)

**Product Description:** Human FKBP1A full-length ORF (AAH05147, 1 a.a. - 108 a.a.) recombinant protein with GST-tag at N-terminal.

**Sequence:**

MGVQVETISPGDGRTPKRGQTCVVHYTGMLEDGKK  
FDSSRDRNPKPFKMLGKQEVIRGWEEGVAQMSVGQR  
AKLTISPDYAYGATGHPGIIPPHATLVFDVELLKLE

**Host:** Wheat Germ (in vitro)

**Theoretical MW (kDa):** 37.62

**Applications:** AP, Array, ELISA, WB-Re  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at  
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Preparation Method:** [in vitro wheat germ expression system](#)

**Purification:** Glutathione Sepharose 4 Fast Flow

**Storage Buffer:** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction:** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 2280

**Gene Symbol:** FKBP1A

**Gene Alias:** FKBP-12, FKBP1, FKBP12, FKBP12C, PKC12, PKCI2, PPIASE

**Gene Summary:** 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. The protein is a

cis-trans prolyl isomerase that binds the immunosuppressants FK506 and rapamycin. It interacts with several intracellular signal transduction proteins including type I TGF-beta receptor. It also interacts with multiple intracellular calcium release channels, and coordinates multi-protein complex formation of the tetrameric skeletal muscle ryanodine receptor. In mouse, deletion of this homologous gene causes congenital heart disorder known as noncompaction of left ventricular myocardium. Multiple alternatively spliced variants, encoding the same protein, have been identified. The human genome contains five pseudogenes related to this gene, at least one of which is transcribed. [provided by RefSeq]

**References:**

1. Impact of hypoxia, simulated ischemia and reperfusion in HL-1 cells on the expression of FKBP12/FKBP12.6 and intracellular calcium dynamics. Strom-Olsson K, Li L, Olofsson CS, Boren J, Ohlin H, Grip L. Biochem Biophys Res Commun. 2012 May 19.
2. Coupling surface plasmon resonance to mass spectrometry to discover novel protein-protein interactions. Madeira A, Ohman E, Nilsson A, Sjogren B, Andren PE, Svenningsson P. Nat Protoc. 2009;4(7):1023-37. Epub 2009 Jun 11.
3. Increased Striatal mRNA and Protein Levels of the Immunophilin FKBP-12 in Experimental Parkinson's Disease and Identification of FKBP-12-Binding Proteins. Nilsson A, Skold K, Sjogren B, Svensson M, Pierson J, Zhang X, Caprioli RM, Buijs J, Persson B, Svenningsson P, Andren PE. J Proteome Res. 2007 Oct;6(10):3952-61. Epub 2007 Sep 18.