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## Datasheet for ABIN968189 anti-FKBP1A antibody (AA 1-108)

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### Overview

Quantity:	50 µg	
Target:	FKBP1A	
Binding Specificity:	AA 1-108	
Reactivity:	Human, Mouse, Dog, Chicken	
Host:	Mouse	
Clonality:	Monoclonal	
Conjugate:	This FKBP1A antibody is un-conjugated	
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF)	

## Product Details

Immunogen:	Human FKBP12 aa. 1-108	
Clone:	8-FKBP12	
Isotype:	lgG1	
Cross-Reactivity:	Mouse (Murine), Dog (Canine), Chicken	
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.	
	2. Please refer to us for technical protocols.	
	3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide	
	compounds in running water before discarding to avoid accumulation of potentially explosive	
	deposits in plumbing.	
	4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.	

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Product Details	
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity
	chromatography.

## Target Details

Target:	FKBP1A	
Alternative Name:	FKBP12 (FKBP1A Products)	
Background:	Transforming growth factor-beta binds to the TGFbeta family of heteromeric serine/threonine	
	transmembrane receptors (type I and type II). Following binding of TGFbeta, the type II receptor	
	(TbetaR-II) phosphorylates the type I receptor (TbetaR-I) which, in turn, conveys the signal.	
	Since TbetaR-I and TbetaR-II can interact without the stimulation of TGFbeta, leading to	
	unwanted activation, a regulatory mechanism exists. In a yeast genetic screen, immunophilin	
	FKBP12 was associated with the type I receptor. Studies including co-immunoprecipiation,	
	deletion, and point mutations confirmed this interaction. FKBP12 inhibits TbetaR-II mediated	
	phosphorylation of TbetaR-I, inhibiting activation. FKBP12 binds via its rapamycin/Leu-Pro	
	binding pocket to the Leu-Pro sequence adjacent to the phosphorylation site of TbetaR-I. This	
	interaction is blocked by the addition of macrolides, rapamycin, and FK506. Furthermore,	
	mutations in the binding sites of FKBP12 and TbetaR-I abrogates the binding and results in	
	activation of the receptor without the addition of TGFbeta. Thus, FKBP12 is a regulatory proteir	
	for TbetaR-I and TbetaR-II-mediated signaling.	
	Synonyms: FK506 Binding Protein 1A	
Molecular Weight:	14 kDa	
Pathways:	Negative Regulation of Transporter Activity, Methionine Biosynthetic Process	
Application Details		
Comment:	Related Products: ABIN968552, ABIN967389	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	250 µg/mL	
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.	
Preservative:	Sodium azide	

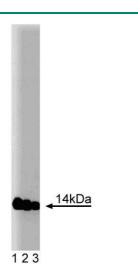
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Handling	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.
Publications	
Product cited in:	Chen, Liu, Massague: "Mechanism of TGFbeta receptor inhibition by FKBP12." in: <b>The EMBO</b> <b>journal</b> , Vol. 16, Issue 13, pp. 3866-76, (1997) (PubMed). Wang, Donahoe, Zervos: "Specific interaction of type I receptors of the TGF-beta family with the immunophilin FKBP-12." in: <b>Science (New York, N.Y.)</b> , Vol. 265, Issue 5172, pp. 674-6, (1994) (
	PubMed).

Images

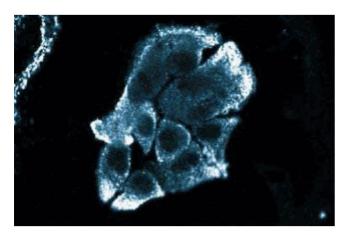
Image 1.

Generated from	n human FKBP12	
1		108
N	Immunogen	c



#### Western Blotting

**Image 2.** Western blot analysis of FKBP12 on a SW-13 cell lysate (Human adrenal gland carcinoma, ATCC CCL-105). Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the mouse anti-FKBP12 antibody.



#### Immunofluorescence

**Image 3.** Immunofluorescence staining of HS 766T cells (Human pancreatic carcinoma, ATCC HTB-134).

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