

## ARG82845 Human Smac / Diablo ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG82845-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82845-002	Standard	2 X 10 ng/vial	4°C
ARG82845-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82845-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82845-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82845-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82845-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82845-008	25X Wash buffer	20 ml	4°C
ARG82845-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82845-010	STOP solution	10 ml (Ready to use)	4°C
ARG82845-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG82845 Human Smac / Diablo ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Smac / Diablo in serum, plasma (EDTA, heparin) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	Smac / Diablo
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15.6 pg/ml
Sample Type	Serum, plasma (EDTA, heparin) and cell culture supernatants.
Standard Range	31.2 - 2000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 6.5% Inter-Assay CV: 7.6%

Alternate Names Smac; Second mitochondria-derived activator of caspase; Diablo homolog, mitochondrial; SMAC; Direct IAP-binding protein with low pI; DFNA64

## Application Instructions

Assay Time ~ 5 hours

## Properties

Form 96 well

Storage instruction Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol DIABLO

Gene Full Name diablo, IAP-binding mitochondrial protein

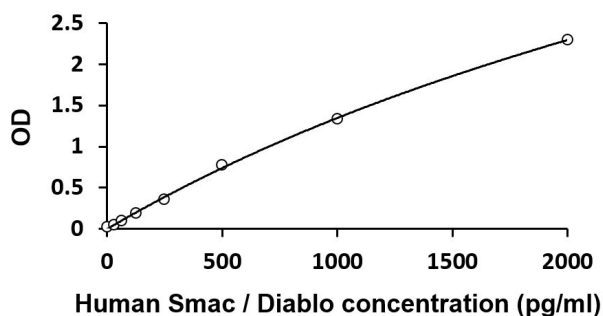
Background This gene encodes an inhibitor of apoptosis protein (IAP)-binding protein. The encoded mitochondrial protein enters the cytosol when cells undergo apoptosis, and allows activation of caspases by binding to inhibitor of apoptosis proteins. Overexpression of the encoded protein sensitizes tumor cells to apoptosis. A mutation in this gene is associated with young-adult onset of nonsyndromic deafness-64. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, May 2013]

Function Promotes apoptosis by activating caspases in the cytochrome c/Apaf-1/caspase-9 pathway. Acts by opposing the inhibitory activity of inhibitor of apoptosis proteins (IAP). Inhibits the activity of BIRC6/bruce by inhibiting its binding to caspases. Isoform 3 attenuates the stability and apoptosis-inhibiting activity of XIAP/BIRC4 by promoting XIAP/BIRC4 ubiquitination and degradation through the ubiquitin-proteasome pathway. Isoform 3 also disrupts XIAP/BIRC4 interacting with processed caspase-9 and promotes caspase-3 activation. Isoform 1 is defective in the capacity to down-regulate the XIAP/BIRC4 abundance. [UniProt]

PTM Ubiquitinated by BIRC7/livin. [UniProt]

Cellular Localization Mitochondrion. Note=Released into the cytosol when cells undergo apoptosis. [UniProt]

## Images



ARG82845 Human Smac / Diablo ELISA Kit standard curve image

ARG82845 Human Smac / Diablo ELISA Kit results of a typical standard run with optical density reading at 450 nm.