

Datasheet for KOA0503**Human Diablo - SMAC ELISA Kit****Overview**

Description:	Human Diablo/SMAC AccuSignal ELISA Kit - KOA0503
Item No.:	KOA0503
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	31.2 pg/ml - 2000 pg/ml

Product Details

Background:	Diablo homolog, mitochondrial, also known as second mitochondria-derived activator of caspases(SMAC), is a protein that in humans is encoded by the DIABLO gene(direct IAP binding protein with low pl). It is mapped to 12q24.31. DIABLO can bind mammalian IAP homolog A (MIHA, or API3) and can also interact with MIHB, MIHC, and OplAP, the baculoviral IAP. 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. Over expression of the encoded protein sensitizes tumor cells to apoptosis. A mutation in this gene is associated with young-adult onset of nonsyndromic deafness-64.
Synonyms:	DFNA64, DIABLO, diablo homolog, mitochondrial, diablo, IAP-binding mitochondrial protein, DIABLO-S, direct IAP-binding protein with low pl, mitochondrial Smac protein, second mitochondria-derived activator of caspase, SMAC3
Detection Kit Type:	ELISA Kit
Detection Range:	31.2 pg/ml - 2000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	DIABLO
Reactivity:	Human
Immunogen:	Expression system for standard: E.coli; Immunogen sequence: A56-D239

Purity/Specificity: Natural and recombinant human Diablo. There is no detectable cross-reactivity with other relevant proteins.

Relevant Links:

- [UniProtKB - Q9NR28](#)
- [NCBI - NP_001265231.1](#)
- [GeneID - 56616](#)
- [KOA0503 Protocol](#)

Application Details

Tested Applications: ELISA

Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml human Diablo standard solutions into the pre-coated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma (heparin, EDTA) to each empty well. It is recommended that each human Diablo standard solution and each sample be measured in duplicate.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

Anticoagulant: Heparin Sodium

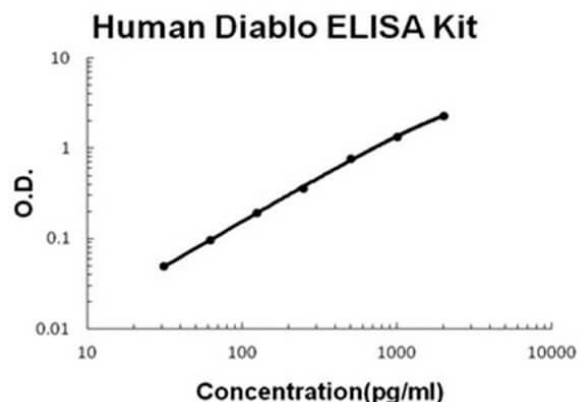
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Expiration: See kit insert for complete instructions.

Images



ELISA

Human Diablo/SMAC AccuSignal ELISA Kit standard curve.
Assay Range: 78pg/ml-5000pg/ml. Sensitivity: <10pg/ml.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.