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DIABLO ELISA Kit



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Quantity:	1 kit
Target:	DIABLO
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.2 pg/mL - 2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen	
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum	
Analytical Method:	Quantitative	
Detection Method:	Colorimetric	
Characteristics:	Synonyms: DFNA64, DIABLO, diablo homolog, mitochondrial, diablo, IAP-binding mitochondrial	

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

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 OpIAP, 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.

Gene Name: DIABLO

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

Standard: Expression system for standard: E.coli, Immunogen sequence: A56-D239

Target Details

Target:	DIABLO	
Alternative Name:	Diablo - SMAC (DIABLO Products)	
Gene ID:	56616	
NCBI Accession:	NP_001265231	
UniProt:	Q9NR28	
Pathways:	Apoptosis, Caspase Cascade in Apoptosis, Positive Regulation of Endopeptidase Activity	

Application Details

Application	Notes:
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Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL 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 precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL 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.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 31.2pg/mL-2000pg/mL
Sample Volume: 100 μL

Plate: Pre-coated

Restrictions: For Research Use only

Handling

Storage:	RT,4 °C,-20 °C	
Storage Comment:	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.	