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Datasheet for ABIN1889324

DIABLO ELISA Kit





Overview

Quantity:	96 tests
Target:	DIABLO
Binding Specificity:	AA 56-239
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Diablo/SMAC
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli Immunogen sequence: A56-D239
Specificity:	Expression system for standard: E.coli Immunogen sequence: A56-D239
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Pathways:

1 Toddet Details	
Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl
Target Details	
Target:	DIABLO
Alternative Name:	DIABLO (DIABLO Products)
Background:	Protein 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.
	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 pI). 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.
	Synonyms: Diablo homolog, mitochondrial, Direct IAP-binding protein with low pl, Second
	mitochondria-derived activator of caspase,Smac,DIABLO,SMAC,
	Full Gene Name: Diablo homolog, mitochondrial
	Cellular Localisation: Mitochondrion . Released into the cytosol when cells undergo apoptosis.
Gene ID:	56616
UniProt:	Q9NR28
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Apoptosis, Caspase Cascade in Apoptosis, Positive Regulation of Endopeptidase Activity

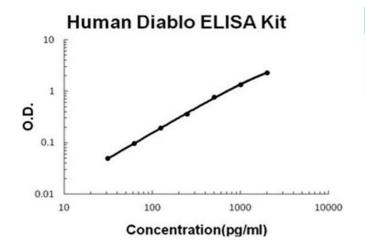
Application Details

Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Tissue Specificity: Ubiquitously expressed with highest expression in testis. Expression is also high in heart, liver, kidney, spleen, prostate and ovary. Low in brain, lung, thymus and peripheral blood leukocytes. Isoform 3 is ubiquitously expressed.
Plate:	Pre-coated
Protocol:	human Diablo ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Diablo has been precoated onto 96-well plates. Standards(E.coli, A56-D239) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Diablo is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human Diablo amount of sample captured in plate.
Assay Procedure:	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. See "Sample Dilution Guideline" above for details. It is recommended that each human Diablo standard solution and each sample be measured in duplicate.
Assay Precision:	 Sample 1: n=16, Mean(pg/ml): 112, Standard deviation: 6.27, CV(%): 5.6 Sample 2: n=16, Mean(pg/ml): 545, Standard deviation: 23.98, CV(%): 4.4 Sample 3: n=16, Mean(pg/ml): 1134, Standard deviation: 58.97, CV(%): 5.2, Sample 1: n=24, Mean(pg/ml): 129, Standard deviation: 7.99, CV(%): 6.2 Sample 2: n=24, Mean(pg/ml): 577, Standard deviation: 40.97, CV(%): 7.1 Sample 3: n=24, Mean(pg/ml): 1133, Standard deviation: 77.04, CV(%): 6.8
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles

Expiry Date:

12 months

Images



ELISA

Image 1. Human Diablo/SMAC PicoKine ELISA Kit standard curve