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Datasheet for ABIN5068269

Mesothelin ELISA Kit

Overview

Quantity:	1 kit
Target:	Mesothelin (MSLN)
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Sample Type:	Cell Culture Lysate, Plasma, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Sensitivity:	0.010 ng/mL
Characteristics:	Mesothelin, ELISA Kit (Human) (CAK1 Antigen, Pre-pro-megakaryocyte-potentiating Factor, MSLN, MPF)
Components:	<ul style="list-style-type: none">• Mesothelin Microplate: 12 strips x 8 wells• Mesothelin monoclonal antibody, conjugated to HRP: 1 x 21ml• Mesothelin Standard (lyophilized): 1 x 100ng• Assay Diluent R 1 x 11ml• Calibrator Diluent R Concentrate: 1 x 21ml• Wash Buffer Concentrate: 1 x 21ml• Color Reagent A (stabilized hydrogen peroxide): 1 x 12.5ml• Color Reagent B (tetramethylbenzidine): 1 x 12.5ml• Stop Solution (2N sulfuric acid): 1 x 6ml• Plate Covers: 4 adhesive strips

Target Details

Target:	Mesothelin (MSLN)
Alternative Name:	Mesothelin (MSLN Products)
Background:	Mesothelin, also known as CAK1 and ERC, is a protein that is mainly expressed in the mesothelial cells lining the pleura, pericardium, and peritoneum. The Mesothelin gene encodes a precursor protein of 70kD that is cleaved into two products, including megakaryocyte potentiating factor (aa37-286) and Mesothelin (aa296-606). Megakaryocyte potentiation factor is a secreted protein of about 32kD, and it functions as a cytokine that can stimulate colony formation in bone marrow megakaryocytes.
Pathways:	EGFR Signaling Pathway , Positive Regulation of Peptide Hormone Secretion , Intracellular Steroid Hormone Receptor Signaling Pathway , Steroid Hormone Mediated Signaling Pathway , Carbohydrate Homeostasis , cAMP Metabolic Process , Regulation of G-Protein Coupled Receptor Protein Signaling , Positive Regulation of Endopeptidase Activity , Regulation of Carbohydrate Metabolic Process

Application Details

Plate:	Pre-coated
Protocol:	<p>Principle:</p> <ul style="list-style-type: none">This assay employs the quantitative sandwich enzyme immunoassay technique. A monoclonal antibody specific for Mesothelin has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any Mesothelin present is bound by the immobilized antibody. After washing away any unbound substances, an enzyme-linked monoclonal antibody specific for Mesothelin is added to the wells. Following a wash to remove any unbound antibody-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of Mesothelin bound in the initial step. The color development is stopped and the intensity of the color is measured.
Restrictions:	For Research Use only

Handling

Storage:	4 °C
Storage Comment:	4°C