



Human Transmembrane glycoprotein NMB(GPNMB) ELISA kit

Product Code	CSB-EL009727HU
Abbreviation	GPNMB
Target Name	glycoprotein (transmembrane) nmb
Uniprot No.	Q14956
Alias	HGFIN, NMB, glycoprotein NMB glycoprotein nmb-like protein osteoactivin transmembrane glycoprotein
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.78 ng/mL-50 ng/mL
Sensitivity	0.195 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cancer
Gene Names	GPNMB
Tag Info	quantitative
Protein Description	Sandwich

Description

This human GPNMB ELISA kit employs the quantitative sandwich enzyme immunoassay technique to measure the levels of human GPNMB in serum, plasma, or tissue homogenates. It also uses the enzyme-substrate chromogenic reaction to visualize and analyze the analyte levels through the color intensity. The intensity of the colored product is in direct proportion to the GPNMB levels in the sample and is measured at 450 nm through a microplate reader.

GPNMB has different functions on distinct cell types. In bones, GPNMB promotes differentiation of osteoblasts and mineralization of bone matrix, fibroblast activation, and proliferation, maturation of hematopoietic and lymphoid cells, and also decreases the activation of lymphocytes T. Also, GPNMB expression is detected in multiple other tissues such as kidney and skeletal muscle where it participates in various processes like cell proliferation, tumor progression, and tissue regeneration. In humans, GPNMB serum levels are related and contribute to obesity and metabolic parameters such as hip



circumference, body mass index, and insulin resistance. GPNMB also has a function as a negative regulator of inflammatory processes. It has been associated with various pathological conditions such as colitis, nonalcoholic steatohepatitis, amyotrophic lateral sclerosis, glaucoma, neuroinflammation, and cancer progression.

Target Details

This protein is a type I transmembrane glycoprotein which shows homology to the pMEL17 precursor, a melanocyte-specific protein. GPNMB shows expression in the lowly metastatic human melanoma cell lines and xenografts but does not show expression in the highly metastatic cell lines. GPNMB may be involved in growth delay and reduction of metastatic potential. Two transcript variants encoding different isoforms have been found for this gene.

Msds

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