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GDF-15 (NAG-1, MIC-1) Cancer ELISA Kit

Cat #NG1

High sensitivity sandwich ELISA kit for measuring GDF-15 (NAG-1/MIC-1) levels in biological samples. The limit of detection (LOD) of this kit is **1 pg/mL**.

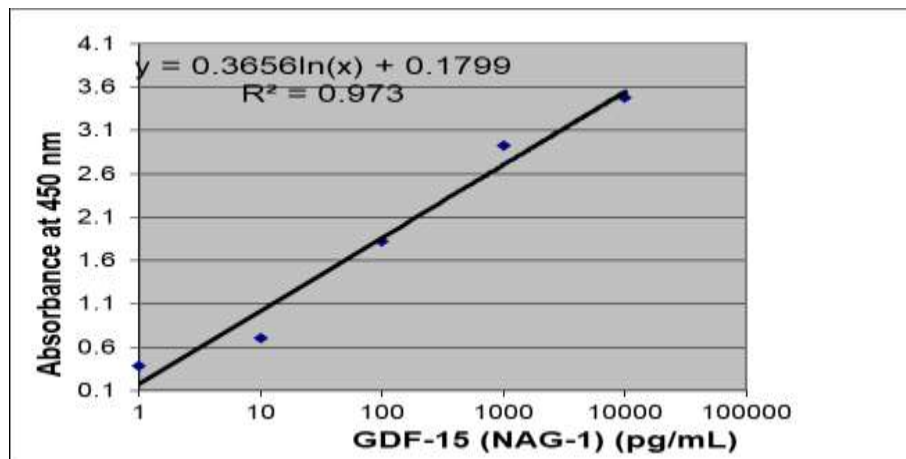
GDF-15: Growth differentiation factor

NAG-1: Non-steroidal anti-inflammatory drug (NSAID)-activated gene

MIC-1: Macrophage inhibitory cytokine)

Serum levels of the cytokine GDF-15, also known as NAG-1 or MIC-1, increased in patients during the progression of prostate and bone cancer^{1,2}. Serum GDF-15 (NAG-1/MIC-1) levels also increased in breast, colorectal and pancreatic cancer metastasis patients. GDF-1 (NAG-1/MIC-1) was up-regulated in a colorectal cancer cell line after treatment with NSAIDS and dietary agents including resveratrol, genistein, diallyl disulfide and indole-3-carbinol². A recent study at our laboratory found that measurements of GDF-15 in combination with PSA were more effective in diagnosing prostate cancer than PSA alone. GDF-15 expression is also associated with cardiovascular diseases.

Each kit is sufficient for triplicate analyses of up to 24 samples and contains one 96 well plate, GDF-15 standards, biotinylated detection antibodies and streptavidin-conjugated horseradish peroxidase (HRP), and buffers for dilutions of sample and antibodies, and for plate washing.



Cat # GDF-15: Goat polyclonal antibody for human GDF-15/NAG-1/MIC-1

Cat # GDF-15M: Rabbit polyclonal antibody for mouse/rat GDF-15/NAG-1/MIC-1

References:

1. Welsh, JB, Sapinoso, LM, Kern, SG, Brown, DA, Liu, T, Bauskin, AR, Ward, RL, Hawkins, NJ, Quinn, DI, Russell, PJ, Sutherland, RL, Breit, SN, Moskaluk, CA, Frierson, Jr., HF, Hampton, GM (2003) Large-scale delineation of secreted protein biomarkers overexpressed in cancer tissue and serum. PNAS 100: 3410-3415.
2. Eling, TE, Baek SJ, Shim, M, Lee, CH (2006) NSAID activated gene (NAG-1), a modulator of tumorigenesis. J. Biochem. Mol Biol 39:649-655 and references therein.