

Product datasheet for **DM1224**

GDF15 (N-term) Mouse Monoclonal Antibody [Clone ID: ME-6D10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	ME-6D10
Applications:	ELISA, FC, WB
Recommended Dilution:	Cell based ELISA with intact, transiently transfected cells: 1/200-1/400. Flow Cytometry: 1.2 µg/10 ⁶ cells.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Genetic immunisation with cDNA encoding amino acids 30-194 (N-term) of MIC-1 proprotein.
Specificity:	Recognizes Human Macrophage Inhibitory Cytokine-1 (MIC-1). Other species not tested.
Formulation:	Phosphate buffered saline, pH 7.2 without preservatives State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	growth differentiation factor 15
Database Link:	Entrez Gene 9518 Human Q99988



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Background:

Macrophage inhibitory cytokine-1 (MIC-1) is a member of the transforming growth factor- β superfamily that regulates a wide variety of physiological processes involved in tissue differentiation and maintenance (1). MIC-1 is synthesized as a 62-kDa intracellular protein, which, after cleavage by a furin like protease, is secreted as a 25-kDa disulphide-linked dimeric protein. Expression of MIC-1 results in inhibition of macrophage activation, regulated by the p53 pathway, in response to pro-inflammatory monokines (1,2). MIC-1 is involved in tumour pathogenesis and its measurement can be used as a clinical tool for the diagnosis of a wide range of cancers. It could be a useful marker for aggressive prostate cancer while MIC-1 is upregulated in advanced and more aggressive prostatic tumours (3).

Synonyms:

GDF-15, MIC1, PDF, PLAB, PTGFB, Growth/differentiation factor 15, Placental bone morphogenetic protein, Placental TGF-beta, Macrophage inhibitory cytokine 1, MIC-1, Prostate differentiation factor, NSAID-activated gene 1 protein, NAG-1, NSAID-regulated gene 1 protein, NRG-1

Protein Families:

Druggable Genome, Secreted Protein

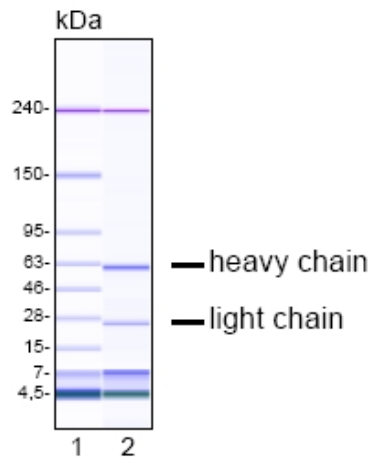
Product images:


Figure 2. Crified ME-1C4 monoclonal antibody. Lane 1: Molecular Weight marker, Lane 2: purified ME-1C4 antibody. Proteins were separated by CGE (Capillary Gel Electrophoresis, Agilent 2100 Bioanalyzer). Internal Control bands (240 kDa / 7 kDa / 4.5 kDa).

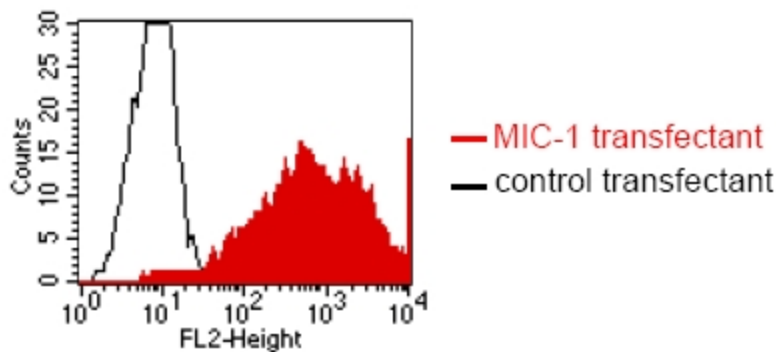


Figure.1: FACS analysis of BOSC23 cells using ME-6D1. BOSC23 cells were transiently transfected with an expression vector encoding either MIC-1 (red curve) or anirrelevant protein (Control transfectant: black curve). Binding of ME-6D1 was detected with a PE-conjugated secondary antibody. A positive signal was obtained only with MIC-1 trans-fected cells.