

Product datasheet for **AP01143PU-N**

Melanoma Inhibitory Activity (MIA) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	Immunohistochemistry: This antibody stained formalin-fixed paraffin-embedded sections of human pancreas infiltrating ductal adenocarcinoma tissue. The recommended concentration is 1.0-2.0 µg/ml with an overnight incubation at 4°C. An HRP-labeled polymer detection system was used with an alcohol-soluble AEC chromogen. Optimal results for these conditions were achieved with heat induced antigen retrieval with a pH 6.0 Sodium Citrate buffer enzyme induced antigen retrieval with proteinase K at room temperature. Optimal conditions may vary. Tissue samples were provided by the Cooperative Human Tissue Network which is funded by the National Cancer Institute. Indirect ELISA: To detect Human MIA (using 100 µl/well antibody solution) a concentration of 0.5-2.0 µg/ml of this antibody is required. In conjunction with compatible secondary reagents, it allows the detection of at least 0.2-0.4 ng/well of recombinant Human MIA. Sandwich ELISA: To detect Human MIA (using 100 µl/well antibody solution) a concentration of 0.5-2.0 µg/ml of this antibody is required. In conjunction with Biotinylated Anti-Human MIA (AP01143BT-S or AP01143BT-N) as a Detection antibody, it allows the detection of at least 0.2-0.4 ng/well of recombinant Human MIA. Western blot: To detect Human MIA this antibody can be used at a concentration of 0.1-0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant Human MIA is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Highly pure (> 98%) recombinant Human MIA
Specificity:	This antibody detects MIA.
Formulation:	PBS, pH 7.2 without preservatives. State: Aff - Purified State: Lyophilized (sterile filtered) Ig fraction.
Reconstitution Method:	Centrifuge vial prior to opening. Restore in sterile water to a concentration of 0.1-1.0 mg/ml.



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Purification:	Immunoaffinity Chromatography.
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	melanoma inhibitory activity
Database Link:	Entrez Gene 8190 Human Q16674
Background:	Melanoma Inhibitory Activity (MIA) was originally identified as an inhibitor of the in vitro growth of malignant melanoma cells. It was the first discovered member of a family of secreted cytokines termed the MIA/OTOR family. The four known members of this family; Melanoma Inhibitory Activity, MIA2, OTOR and TANGO each contain a Src homology-3 (SH3)-like domain. Melanoma Inhibitory Activity is an autocrine growth regulatory protein secreted from chondrocytes and malignant melanoma cells that promotes melanoma metastasis by binding competitively to fibronectin and laminin in a manner that results in melanoma cell detachment from the extracellular matrix in vivo. Elevated levels of Melanoma Inhibitory Activity may represent a clinically useful marker for diagnosis of melanoma metastasis as well as a potential marker for rheumatoid arthritis.
Synonyms:	Melanoma inhibitory activity