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AM33283PU-T Monoclonal Antibody to Plasma Cell - Purified

Alternate names: Plasma B cell, Plasmocytes

0.2 mg/ml

Quantity: 20 μg

Background: Plasma cells (also called plasma B cells or plasmocytes), which are large lymphocytes

derived from an antigen-specific B cell, secrete antibodies and are responsible for humoral immunity. Plasma cells differentiate from B cells upon stimulation by CD4+ lymphocytes. The B cell acts as an antigen-presenting cell (APC), consuming an offending pathogen, which is taken up by the B cell by phagocytosis and broken down

within proteosomes. Plasma cells contain basophilic cytoplasm; their nucleus contains heterochromatin organized in a characteristic cartwheel arrangement.

Host / Isotype: Mouse / IgG2a Recommended Isotype AM03096PU-N

Controls:

Concentration:

Clone: SPM310

Immunogen: Pancreatic cancer related Mucin.

Format: State: Liquid purified IgG fraction from Bioreactor Concentrate

Purification: Protein A/G Chromatography

Buffer System: 10mM PBS

Preservatives: 0.05% Sodium Azide

Stabilizers: 0.05% BSA

Applications: Immunohistochemistry on Paraffin Sections: Use Plasma Cell antibody at 0.5-1 μg/ml

for 30 minutes at RT.

Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate

buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes.

Positive Control: Tonsil or Lymph node.

Note that this Monoclonal Antibody is not suitable for staining Frozen tissues. Other applications not tested. Optimal dilutions are dependent on conditions and

should be determined by the user.

Specificity: This antibody recognizes an intracytoplasmic antigen which shows a very high degree

of specificity for plasma cells. This antigen is present in normal as well as neoplastic

plasma cells.

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secrete antibodies and are responsible for humoral immunity. Plasma cells

differentiate from B cells upon stimulation by CD4 + lymphocytes. The B cell acts as an antigen-presenting cel l (APC), consuming an offending pathogen, which is taken up by the B cell by phagocytosis and broken down within proteosomes. Plasma cells contain basophilic cytoplasm; their nucleus contains heterochromatin organized in a characteri stic cartwheel arrangement. This Plasma Cell Marker antibody superbly recognizes normal and neoplastic plasma cells in routine formalin-fixed, paraffinembedded tissue sections. It is of potential value in identifying myeloma or



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plasmacytoma in bone marrow or other tissues. It also helps differentiate lympho-

plasmacytoid lymphoma from lymphocytic and follicular lymp homa.

Cellular Localization: Cytoplasmic.

Negative Species: Rat.

Species Reactivity: Tested: Human.

Storage: Store undiluted at 2-8°C.

Shelf life: one year from despatch.

General Readings: 1. Turley H, Jones M, Erber W, Mayne K, de Waele M, Gatter K. VS38: a new monoclonal

antibody for detecting plasma cell differentiation in routine sections. J Clin Pathol.

1994 May;47(5):418-22. PubMed PMID: 7517959.

Pictures: Formalin-paraffin human tonsil stained

with Plasma Cell Marker MAb (Clone

SPM310).

