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SM1214P Monoclonal Antibody to Fibroblasts / Epithelial Cells - Purified

Quantify:0.2 mgConcentration:1.0 mg/mlBackground:A fibroblast is a connective-tissue cell of mesenchymal (somewhat undifferentiated) origin that secretes proteins from which the extracellular fibrillar matrix of connective tissue forms. Epithelial cells are cells that cover the surface of the body and line its cavities.Host / Isotype:Mouse / IgG2aRecommended IsotypeMouse / IgG2aRecommended Isotype:D7-FIBControls:D7-FIBFlomant:State: Liquid purified IgG fraction from Tissue Culture Supematant Purification: Affinity Chromatography on Protein G Buffer System: PBS containing 0.09% Sodium Azide as preservativeApplications:Flow Cytometry: Use 10 µl of a 1/50-1/200 diluted antibody to label 10 ⁶ cells in 100 µl. This artibody is reported to be sensitive to formaldehyde fixation and tissue prosessing. Use ice-cold methanol for 5 min or acetone as fixative. <i>Des not work on Parafifis Sections.</i> Immunohistochemistry on Frozen Tissues or cells: 1/100. This artibody is reported to be sensitive to formaldehyde fixation and tissue prosessing. Use ice-cold methanol for 5 min or acetone as fixative. <i>Des not work on Parafifis Sections.</i> Immunoprecipitation. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.Specificity:SM1214P recognizes a112 kD molecule expressed on the cell surface of human fibroblasts and epithelial cells. In peripheral blood the antibody stains myeloid cells and a very small number of lymphocytes. D7-FIB has been shown to be useful as a cell membrane marker to characterize chondrocyte differentiaten giving a positive reaction with dedifferentiated human chondrocyte, and negative with differentiated cho		
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Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
Product Citations:	Purchased from Acris: 1. Nazareth MR, Broderick L, Simpson-Abelson MR, Kelleher RJ, Yokota SJ, Bankert RB. Characterization of human lung tumor-associated fibroblasts and their ability to modulate the activation of tumor-associated T cells. J Immunol. 2007 May 1;178(9):5552-62. PubMed PMID: 17442937.
General Readings:	 Fearns C, Dowdle EB. The desmoplastic response: induction of collagen synthesis by melanoma cells in vitro. Int J Cancer. 1992 Feb 20;50(4):621-7. PubMed PMID: 1537627. Kelynack KJ, Hewitson TD, Nicholls KM, Darby IA, Becker GJ. Human renal fibroblast contraction of collagen I lattices is an integrin-mediated process. Nephrol Dial Transplant. 2000 Nov;15(11):1766-72. PubMed PMID: 11071963. van Osch GJ, van der Veen SW, Marijnissen WJ, Verhaar JA. Monoclonal antibody 11-fibrau: a useful marker to characterize chondrocyte differentiation stage. Biochem Biophys Res Commun. 2001 Jan 26;280(3):806-12. PubMed PMID: 1116252. Behl, B. et al. (2013) Biological effects of cobalt-chromium nanoparticles and ions on dural fibroblasts and dural epithelial cells. Biomaterials. pil: S0142-9612(13)00039-2. Morito T, Muneta T, Hara K, Ju YJ, Mochizuki T, Makino H, et al. Synovial fluid- derived mesenchymal stem cells increase after intra-articular ligament injury in humans. Rheumatology (Oxford). 2008 Aug;47(8):1137-43. doi: 10.1093/rheumatology/ken114. Epub 2008 Apr 5. PubMed PMID: 18390894. Pountos I, Giannoudis PV, Jones E, English A, Churchman S, Field S, et al. NSAIDS inhibit in vitro MSC chondrogenesis but not osteogenesis: implications for mechanism of bone formation inhibition in man. J Cell Mol Med. 2011 Mar;15(3):525-34. doi: 10.1111/j.1582-4934.2010.01006.x. PubMed PMID: 20070439. Telfer JF, Brock JH. Expression of ferritin, transferrin receptor, and non-specific resistance associated macrophage proteins 1 and 2 (Nramp1 and Nramp2) in the human rheumatoid synovium. Ann Rheum Dis. 2002 Aug;61(8):741-4. PubMed PMID: 12117685. English A, Jones EA, Corscadden D, Henshaw K, Chapman T, Emery P, et al. A comparative assessment of cartilage and joint fat pad as a potential source of cells for autologous therapy development in knee osteoarthritis. Rheumatology (Oxford). 2007 Nov;46(11):1676-83. Epub 2007 Sep 26. PubMed PMID:

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10.1089/ten.TEA.2011.0357. Epub 2012 Jun 12. PubMed PMID: 22500696. 17. Scut, N. et al. (2008) Tissue specific characteristics of cells isolated from human and rat tendons and ligaments. J Orthop Surg Res. 3: 32.

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Pictures:

Flow Cytometry: Staining of KG1 cells with Mouse anti Human fibroblast antibody.

