DENDRITICS

Monoclonal Anti-human MIP-3α/CCL20

Product reference: DDX0420

Description

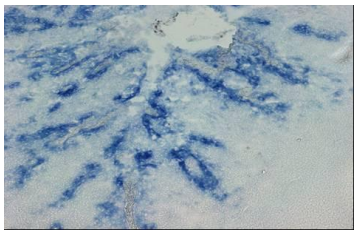
Macrophage inflammatory protein (MIP)-3alpha/ CCL20 is a CC-type chemokine mapped to chromosome 2 in humans. Langerhans cells (LCs) represent a unique population of DCs colonizing epithelium. MIP-3alpha plays a central role in LC precursor recruitment into the epithelium during inflammation. (a) Among DC populations, MIP-3alpha is the most potent chemokine inducing the selective migration of in vitro-generated CD34(+) hematopoietic progenitor cell-derived LC precursors and skin LCs in accordance with the restricted MIP-3alpha receptor (CC chemokine receptor 6) expression by these cells. (b) MIP-3alpha is mainly produced by epithelial cells, and the migration of LC precursors induced by the supernatant of activated skin keratinocytes is blocked with an antibody against MIP-3alpha. (c) In vivo, MIP-3alpha is selectively produced at sites of inflammation as illustrated in tonsils and lesional psoriatic skin where MIP-3alpha upregulation appear associated with an increase in LC turnover. (d) The secretion of MIP-3alpha is strongly upregulated by cells of epithelial origin after inflammatory stimuli (interleukin 1beta plus tumor necrosis factor alpha) or T cell signals.*(Dieu-Nosjean et al, J;Exp.med, 2000 192: 705-18;Homey B. et al, 2000,J.Immunol.164:6621-32)*

Clone:	**206D9.05**
Species:	mouse
Specificity:	human MIP-3α
Immunogen:	human recombinant MIP3α in eukaryotic cells
Species cross- reactivity:	nd
Isotype:	IgG1
Purification:	QMA Hyper D ion exchange chromatography
Formulation/size:	**Purified**: 100 µg in 200µl / 50 µg in 100 µl Tris-NaCl pH 8 **Coupled**: 100 µg in 200µl / 50 µg in 100 µl PBS 50% glycerol

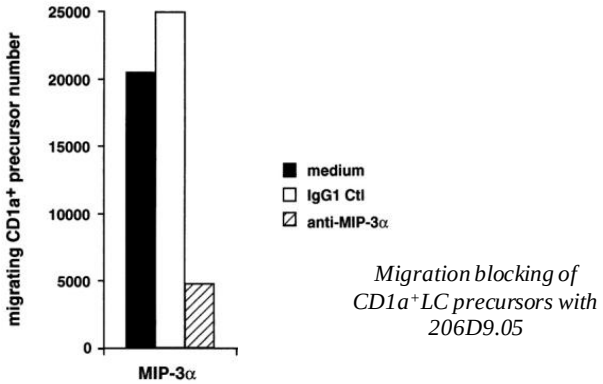
Available formats:

Reference N°		Format	Application tested
50 µg	**100 g**		
DDX0420P-50	DDX0420P-100	purified	Blocking migration, WB, paraffin (Bouin), IHC frozen section
DDX0420HRPO-50	DDX0420HRPO-100	HRPO	ELISA detection (with 319F6.06 clone)

Applications tested



Human tonsil cryosection stained with 206D9



Migration blocking of CD1a⁺LC precursors with 206D9.05

Usage recommendation: *****This monoclonal antibody may be used between 5-20 µg/ml
*Optimal dilution should be determined by each laboratory for each application
*Coupled antibody: to maintain RT before using

Aliquot storage conditions **-20°C. KEEP CONTENTS STERILE: no preservative.**
<u>Purified</u> antibodies: avoid repeated freeze/thaw cycles.
<u>Coupled</u> antibodies: glycerol protects from freezing

Not for use in Humans. For research purpose only

contact@dendritics.net **+33(0)4.72.71.74.03** **www.dendritics.net**