

Mouse anti-Human MCP3 Monoclonal Antibody | anti-CCL7 antibody

Anti-MCP3 Antibody, Mouse Monoclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255484	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

MCP3; Monoclonal Antibody; Anti-MCP3 Antibody; Mouse Monoclonal; MCP-3/CCL7 Antibody; Mouse MAb; chemokine (C-C motif) ligand 7; Anti-FIC Antibody; Anti-MARC Antibody; Anti-MCP-3 Antibody; Anti-NC28 Antibody; Anti-SCYA6 Antibody; Anti-SCYA7 Antibody; anti-CCL7 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	18
Specificity	Human CCL7/MCP3. No cross-reactivity in ELISA with E Coli cell lysate
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CCL7 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), ELISA
Immunogen	Recombinant Human CCL7/MCP3 protein
Conjugation	Unconjugated
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human CCL7/MCP3 (rh CCL7/MCP3). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

Flow cytometric analysis of Human CCL7 expression on THP-1 cells. The cells were treated according to manufacturer's manual (BD Pharmingen[®]), stained with purified anti-Human CCL7, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.



IF (Immunofluorescence)

Immunofluorescence staining of Human CCL7 in SKBR3 cells. Cells were fixed with 4% PFA, permeabilized with 1% Triton X-100 in PBS, blocked with 10% serum, and incubated with Mouse anti-Human CCL7 monoclonal antibody (1:60). Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-mouse IgG secondary antibody (left panel, captured by laser confocal scanning microscope; right panel, captured by fluorescence microscope), counterstained with DAPI (blue). Positive staining was localized to cytoplasm.

ADDITIONAL INFORMATION

Related Product Information for anti-CCL7 antibody	Chemokines are a family of small chemotactic cytokines, or proteins secreted by cells. Chemokines share the same structure similarities such as small size, and the presence of four cysteine residues in conserved locations in order to form their 3-dimensional shape. Some of the chemokines are considered pro-inflammatory which can be induced to recruit cells of the immune system to a site of infection during an immune response, while others are considered homeostatic and are implied in controlling the migration of cells during normal processes of tissue maintenance and development. There are four members of the chemokine family: C-C kemokines, C kemokines, CXC kemokines and CX3C kemokines. The C-C kemokines have two cysteines nearby the amino terminus. There have been at least 27 distinct members of this subgroup reported for mammals, called C-C chemokine ligands-1 to 28. Chemokine ligand 7(CCL7), also known as MCP-3, is a isform of the C-C chemokine subfamily of the chemokine family which is produced by certain tumor cells and by macrophages. It also own two adjacent N-terminal cysteine residues. Chemokine ligand 7(CCL7) spacifically attracts monocytes, and regulates macrophage function.
Product Categories/Family for anti-CCL7 antibody	IL17 signaling pathway
References	Laing KJ, et al. (2004) Chemokines. Developmental and comparative immunology. 28(5): 443-60.Cocchi F, et al. (1995) Identification of RANTES, MIP-1a, and MIP-1b as the major HIV-suppressive factor produced by CD8+ T cells. Science. 270 (5243): 1811-5.Michalec L, et al. (2002) CCL7 and CXCL10 Orchestrate Oxidative Stress-Induced Neutrophilic Lung Inflammation. The Journal of Immunology. 168: 846-52.Wetzel K, et al. (2007) MCP-3 (CCL7) delivered by parvovirus MVMP reduces tumorigenicity of mouse melanoma cells through activation of T lymphocytes and NK cells.International Journal of Cancer. 120(6):1364-71.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13435402
NCBI GeneID	6354
NCBI Accession #	NP_006264.2
NCBI GenBank Nucleotide #	NM_006273.3
Molecular Weight	11,200 Da
NCBI Official Full Name	C-C motif chemokine 7
NCBI Official Synonym Full Names	chemokine (C-C motif) ligand 7
NCBI Official Symbol	CCL7
NCBI Official Synonym Symbols	FIC; MARC; MCP3; NC28; MCP-3; SCYA6; SCYA7
NCBI Protein Information	C-C motif chemokine 7; monocyte chemoattractant protein 3; monocyte chemotactic protein 3; small inducible cytokine A7 (monocyte chemotactic protein 3); small-inducible cytokine A7

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