

Mouse MCP-1 Monoclonal Antibody | anti-MCP-1 antibody

MOUSE ANTI HUMAN MCP-1

CATALOG # AAA49386	HOST Mouse	APPLICATIONS Western Blot, Immunohistochemistry, ELISA
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PRODUCT SYNONYMS

MCP-1; Monoclonal Antibody; MOUSE ANTI HUMAN MCP-1; anti-MCP-1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	2.2-4A4-1A11
Form/Format	Purified Purified IgG - lyophilised
Concentration	IgG concentration 1.0 mg/ml after reconstitution (varies by lot)
Sequence Length	99
Applicable Applications for anti-MCP-1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Reconstitution	Reconstitute with 0.5 ml distilled water. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. AAA Biotech recommends that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% sodium azide is recommended. Preparation
Histology Positive Control Tissue	Human Breast Invasive Ductal Carcinoma Buffer Solution
Target Species	Human
Preparation and Storage	Prior to reconstitution store at 4 degree C. Following reconstitution store at -20 degree C. This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 12 months from date of reconstitution.

IMAGES



Application Data

Sandwich ELISA analysis of human MCP-1 using Mouse anti Human MCP-1 as a capture reagent and biotinylated Rabbit anti Human MCP-1 as a detection reagent with recombinant human MCP-1 as antigen. Detection is by HRP conjugated streptavidin and substrate. Microtitre plate is read at O.D. 450 nm on the iMark Microplate Absorbance Reader . Serum (green) and plasma (orange) samples are included undiluted



Application Data

Formalin fixed, paraffin embedded human breast ductal carcinoma stained with Mouse anti Human MCP-1 following antigen retrieval with sodium citrate buffer (pH6.0)



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ADDITIONAL INFORMATION

Related Product Information for anti-MCP-1 antibody	Mouse anti Human MCP-1 antibody, clone 2.2-4A4-1A11 recognizes human C-C motif chemokine 2, also known as Monocyte chemoattractant protein 1 (MCP-1), Monocyte chemotactic and activating factor, Monocyte secretory protein JE, Small-inducible cytokine A2 or CCL2, and does not cross react with MCP-2, MCP-3 or other structurally related chemokines. MCP-1 is a 99 amino acid, including a 23 aa signal peptide ~13kDa chemotactic protein, a chemoattractant for monocytes and basophils but not neutrophils or eosinophils (Weber et al.1996). MCP-1 is produced by a number of cell types, including monocytes, macrophages, microglia, fibroblasts and epithelial cells (Cushing et al. 1990). MCP-1 influences T-cell immunity polarizing responses towards the Th2 phenotype (Karpus and Kennedy 1997). Variations in the CCL2 gene affects susceptibility to Mycobacterium tuberculosis infection (Flores-Villanueva et al. 2005). Mouse anti Human MCP-1 antibody, clone 2.2-4A4-1A11 recognizes both native and recombinant MCP-1 in conjunction with Rabbit anti Human MCP-1 polyclonal antibody in a sensitive sandwich ELISA assay.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4506841
NCBI GeneID	6347
NCBI Accession #	NP_002973.1
NCBI GenBank Nucleotide #	NM_002982.3
UniProt Accession #	P13500; Q9UDF3; B2R4V3
Molecular Weight	11,025 Da
NCBI Official Full Name	C-C motif chemokine 2
NCBI Official Synonym Full Names	chemokine (C-C motif) ligand 2
NCBI Official Symbol	CCL2
NCBI Official Synonym Symbols	HC11; MCAF; MCP1; MCP-1; SCYA2; GDCF-2; SMC-CF; HSMCR30
NCBI Protein Information	C-C motif chemokine 2; monocyte chemoattractant protein 1; monocyte chemoattractant protein-1; monocyte chemotactic and activating factor; monocyte chemotactic protein 1; monocyte secretory protein JE; small inducible cytokine A2 (monocyte chemotactic protein 1, homologous to mouse Sig-je); small inducible cytokine subfamily A (Cys-Cys), member 2; small-inducible cytokine A2
UniProt Protein Name	C-C motif chemokine 2
UniProt Gene Name	CCL2
UniProt Synonym Gene Names	MCP1; SCYA2; MCAF; MCP-1
UniProt Entry Name	CCL2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.