



Armenian Hamster Anti-Mouse CCL2 (MCP-1) Monoclonal antibody, clone 2H5 (CABT-L4459)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	The 2H5 antibody reacts with mouse, human, and rat CCL2 also known as monocyte chemoattractant protein 1 (MCP-1).
Target	Mouse/Human/Rat CCL2 (MCP-1)
Immunogen	CHO-expressed mouse MCP-1
Isotype	IgG, κ
Source/Host	Armenian Hamster
Species Reactivity	Human, Rat, Mouse
Clone	2H5
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo CCL2 neutralization, IHC-F
Molecular Weight	150 kDa
Format	0.2 μM filtered liquid. Purified from tissue culture supernatant in an animal free facility
Concentration	Lot specific
Size	5 mg
Buffer	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free]

Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay
Related dilution buffer: CABT-LB04

Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction

The 2H5 antibody reacts with mouse, human, and rat CCL2 also known as monocyte chemoattractant protein 1 (MCP-1). CCL2 is a 13 kDa chemokine that is produced mainly by monocytes/macrophages but is also expressed by endothelial, fibroblasts, epithelial, smooth muscle, mesangial, astrocytic, and microglial cells. It can be expressed constitutively or after induction by oxidative stress, cytokines, or growth factors. CCL2 regulates the migration and infiltration of monocytes, memory T lymphocytes, and NK cells and is implicated in the pathogenesis of several diseases characterized by monocytic infiltrates, such as multiple sclerosis, psoriasis, rheumatoid arthritis, and atherosclerosis. The 2H5 antibody has been shown to neutralize the biological effects of CCL2 in vivo.

Keywords CCL2;chemokine (C-C motif) ligand 2;HC11;MCAF;MCP1;MCP-1;SCYA2;GDCF-2;SMC-CF;HSMCR30

GENE INFORMATION

Official Symbol	chemokine (C-C motif) ligand 2
Synonyms	CCL2; chemokine (C-C motif) ligand 2; HC11; MCAF; MCP1; MCP-1; SCYA2; GDCF-2; SMC-CF; HSMCR30
References	Brunner, P. M., et al. (2015). "CCL7 contributes to the TNF-alpha-dependent inflammation of lesional psoriatic skin." Exp Dermatol 24(7): 522-528. PubMed;