

## Anti-MCP1/CCL2 Antibody Picoband® PE Conjugated

Catalog Number: PB9570-PE

### About CCL2

Monocyte chemoattractant protein-1 (MCP-1), a member of the chemokine (chemotactic cytokine) family, is a potent monocyte agonist that is upregulated by oxidized lipids. MCP-1 is also known as CCL2, SCYA2, MCAF. MCAF is a member of family of factors involved in immune and inflammatory responses. The amino acid sequence deduced from the nucleotide sequence reveals the primary structure of the MCAF precursor to be composed of a putative signal peptide sequence of 23 amino acid residues and a mature MCAF sequence of 76 amino acid residues. MCP-1 plays a unique and crucial role in the initiation of atherosclerosis and may provide a new therapeutic target in this disorder. Human MCP-1 is a 8.7KDa non-glycoprotein, consisting of 99 amino acids in precursor form and 76 amino acids in mature form.

### Overview

Product Name	Anti-MCP1/CCL2 Antibody Picoband® PE Conjugated
Reactive Species	Human
Application	Recommended applications are based on the parent unconjugated antibody (ELISA, IHC, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P13500

### Technical Details

Immunogen	E. coli-derived human MCP-1 recombinant protein (Position: Q24-T99). Human MCP-1 shares 60.9% and 59.4% amino acid (aa) sequence identity with mouse and rat MCP-1, respectively.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	PE Excitation Wavelength: 566 nm Emission Wavelength: 574 nm

Suggested Dilutions

Optimal dilutions should be determined by end users.

## 25 Publications Citing This Product

1. PubMed ID: 25210730, Salusin-?, but Not Salusin-?, Promotes Human Umbilical Vein Endothelial Cell Inflammation via the p38 MAPK/JNK-NF- $\kappa$ B Pathway
2. PubMed ID: 26221302, Comparison of biomarkers in rat renal ischemia-reperfusion injury
3. PubMed ID: 22377751, Liu Z, Wang T, Yang J, Wang S, Yang W, Liu J, Ye Z. Mol Med Rep. 2012 May;5(5):1241-4. Doi: 10.3892/Mmr.2012.813. Epub 2012 Feb 28. Calcium Oxalate Monohydrate Crystals Stimulate Monocyte Chemoattractant Protein-1 And Transforming Grow...

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