

## CD14 Monoclonal Antibody

<b>Catalog No :</b>	YM0103
<b>Reactivity :</b>	Human
<b>Applications :</b>	IHC;IF;FCM;ELISA
<b>Target :</b>	CD14
<b>Fields :</b>	>>MAPK signaling pathway;>>NF-kappa B signaling pathway;>>Phagosome;>>Toll-like receptor signaling pathway;>>Hematopoietic cell lineage;>>Alcoholic liver disease;>>Shigellosis;>>Salmonella infection;>>Pertussis;>>Legionellosis;>>Amoebiasis;>>Tuberculosis;>>Transcriptional misregulation in cancer;>>Acute myeloid leukemia;>>Lipid and atherosclerosis
<b>Gene Name :</b>	CD14
<b>Protein Name :</b>	Monocyte differentiation antigen CD14
<b>Human Gene Id :</b>	929
<b>Human Swiss Prot No :</b>	P08571
<b>Mouse Swiss Prot No :</b>	P10810
<b>Immunogen :</b>	Purified recombinant fragment of human CD14 expressed in E. Coli.
<b>Specificity :</b>	CD14 Monoclonal Antibody detects endogenous levels of CD14 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	IHC 1:200 - 1:1000. Flow cytometry: 1:200 - 1:400. ELISA: 1:10000.. IF 1:50-200
<b>Purification :</b>	Affinity purification
<b>Concentration :</b>	1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Cell Pathway :** MAPK\_ERK\_Growth;MAPK\_G\_Protein;Toll\_Like;Hematopoietic cell lineage;Regulates Actin and Cytoskeleton;Pathogenic Escherichia coli infection;

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**P References :**

1. J Mammary Gland Biol Neoplasia 2000, 5 : 227-241.
2. J Mammary Gland Biol Neoplasia 2000, 5 : 165-185.

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**Background :** The protein encoded by this gene is a surface antigen that is preferentially expressed on monocytes/macrophages. It cooperates with other proteins to mediate the innate immune response to bacterial lipopolysaccharide. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Mar 2010],

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**Function :** function:Cooperates with MD-2 and TLR4 to mediate the innate immune response to bacterial lipopolysaccharide (LPS). Acts via MyD88, TIRAP and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Up-regulates cell surface molecules, including adhesion molecules.,online information:CD14 entry,similarity:Contains 11 LRR (leucine-rich) repeats.,subunit:Belongs to the lipopolysaccharide (LPS) receptor, a multi-protein complex containing at least CD14, MD-2 and TLR4.,tissue specificity:Expressed strongly on the surface of monocytes and weakly on the surface of granulocytes; also expressed by most tissue macrophages.,

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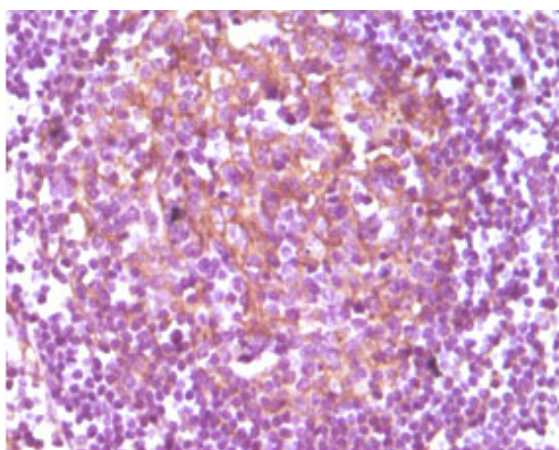
**Subcellular Location :** Cell membrane ; Lipid-anchor, GPI-anchor . Secreted . Membrane raft . Golgi apparatus . Secreted forms may arise by cleavage of the GPI anchor. .

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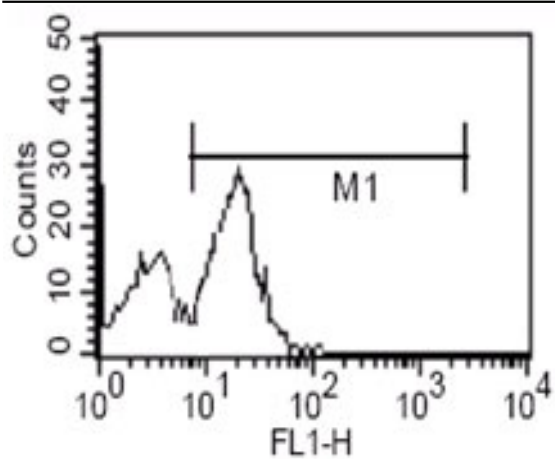
**Expression :** Detected on macrophages (at protein level) (PubMed:1698311). Expressed strongly on the surface of monocytes and weakly on the surface of granulocytes; also expressed by most tissue macrophages.

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## Products Images



Immunohistochemistry analysis of paraffin-embedded human lymphnode, showing membrane localization with DAB staining using CD14 Monoclonal Antibody.



Flow cytometric analysis of human PBMC using CD14 Monoclonal Antibody.