

CD14 Monoclonal Antibody

Catalog No :	YM0103
Reactivity :	Human
Applications :	IHC;IF;FCM;ELISA
Target :	CD14
Fields :	>>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
Gene Name :	CD14
Protein Name :	Monocyte differentiation antigen CD14
Human Gene Id :	929
Human Swiss Prot No :	P08571
Mouse Swiss Prot No :	P10810
Immunogen :	Purified recombinant fragment of human CD14 expressed in E. Coli.
Specificity :	CD14 Monoclonal Antibody detects endogenous levels of CD14 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	IHC 1:200 - 1:1000. Flow cytometry: 1:200 - 1:400. ELISA: 1:10000.. IF 1:50-200
Purification :	Affinity purification
Concentration :	1 mg/ml

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

Cell Pathway : MAPK_ERK_Growth;MAPK_G_Protein;Toll_Like;Hematopoietic cell lineage;Regulates Actin and Cytoskeleton;Pathogenic Escherichia coli infection;

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

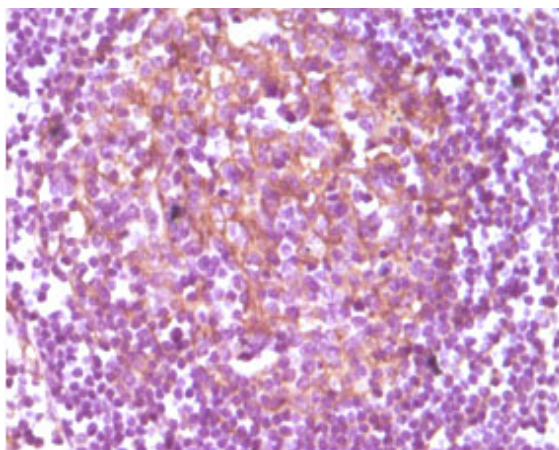
Background : The protein encoded by this gene is a surface antigen that is preferentially expressed on monocytes/macrophages. It cooperates with other proteins to mediate the innate immune response to bacterial lipopolysaccharide. Alternative splicing results in multiple transcript variants encoding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

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.,

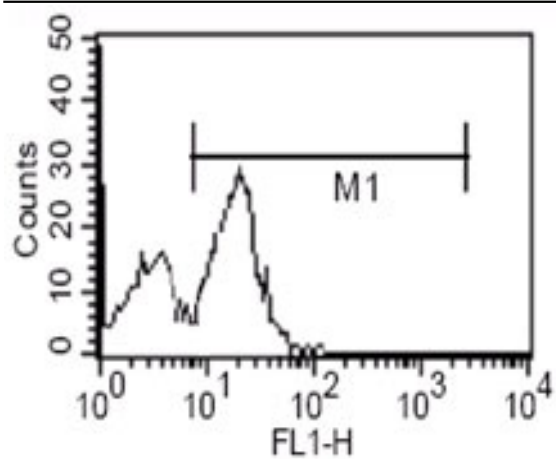
Subcellular Location : Cell membrane ; Lipid-anchor, GPI-anchor . Secreted . Membrane raft . Golgi apparatus . Secreted forms may arise by cleavage of the GPI anchor. .

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.

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.