

CD163 (ABT-CD163) IHC kit

Catalog No :	IHCM6146
Reactivity :	Human;
Applications :	IHC
Target :	CD163
Gene Name :	CD163 M130
Protein Name :	Scavenger receptor cysteine-rich type 1 protein M130 (Hemoglobin scavenger receptor) (CD antigen CD163) [Cleaved into: Soluble CD163 (sCD163)]
Human Gene Id :	9332
Human Swiss Prot No :	Q86VB7
Immunogen :	Synthesized peptide derived from human CD163 AA range: 1-100
Specificity :	The antibody can specifically recognize human CD163 protein.
Source :	Mouse, Monoclonal/IgG1, kappa
Purification :	The antibody was affinity-purified from ascites by affinity-chromatography using specific immunogen.
Storage Stability :	2°C to 8°C/1 year
Background :	The protein encoded by this gene is a member of the scavenger receptor cysteine-rich (SRCR) superfamily, and is exclusively expressed in monocytes and macrophages. It functions as an acute phase-regulated receptor involved in the clearance and endocytosis of hemoglobin/haptoglobin complexes by macrophages, and may thereby protect tissues from free hemoglobin-mediated oxidative damage. This protein may also function as an innate immune sensor for bacteria and inducer of local inflammation. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Aug 2011],
Function :	caution:It is uncertain whether Met-1 or Met-6 is the initiator.,disease:The

soluble form (sCD163) in plasma is a novel parameter in diseases affecting macrophage function and monocyte/macrophage load in the body. The concentration of sCD163 is probably reflecting the number of macrophages of the 'alternative macrophage activation' phenotype with a high CD163 expression playing a major role in dampening the inflammatory response and scavenging components of damaged cells. This has initiated a number of clinical studies for evaluation of sCD163 as a disease marker in inflammatory conditions e.g. infection, autoimmune disease, transplantation, atherosclerosis and cancer.,domain:The SRCR domain 3 mediates calcium-sensitive interaction with hemoglobin/haptoglobin complexes.,function:Acute phase-regulated receptor involved in clearance and endocytosis of hemoglobin/haptoglobin complexes by ma

Subcellular Location :

Membranous, Cytoplasmic

Expression :

Expressed in monocytes and mature macrophages such as Kupffer cells in the liver, red pulp macrophages in the spleen, cortical macrophages in the thymus, resident bone marrow macrophages and meningeal macrophages of the central nervous system. Expressed also in blood. Isoform 1 is the lowest abundant in the blood. Isoform 2 is the lowest abundant in the liver and the spleen. Isoform 3 is the predominant isoform detected in the blood.

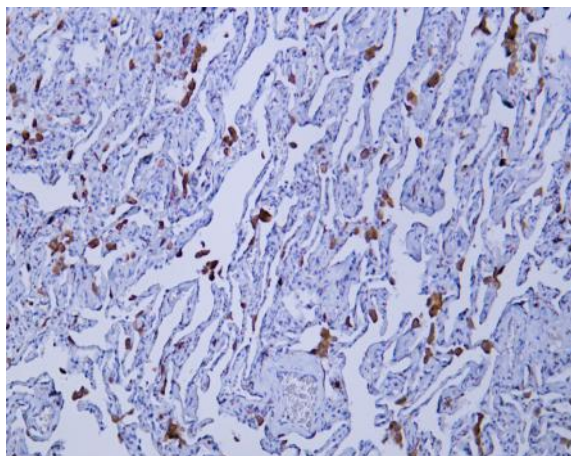
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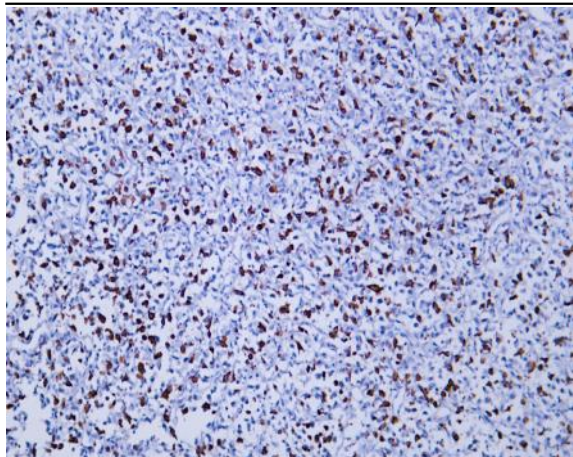
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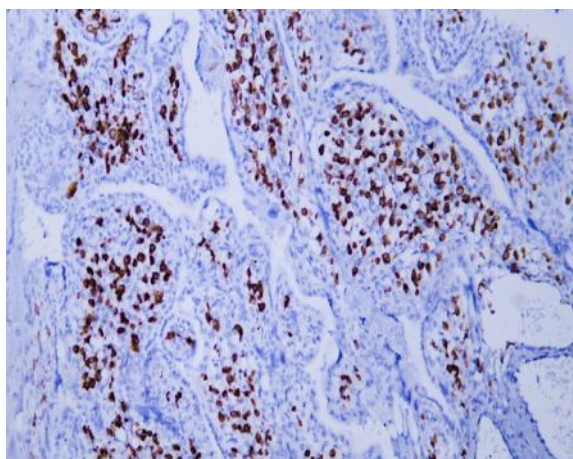
Products Images



Human lung tissue was stained with anti-CD163(ABT-CD163) antibody.



Human malignant fibrous histiocytoma tissue was stained with anti-CD163(ABT-CD163) antibody.



Human placenta tissue was stained with anti-CD163(ABT-CD163) antibody.