

Product datasheet

Recombinant Porcine CD163 protein ab117700

製品の概要

製品名	Recombinant Porcine CD163 protein
タンパク質長	Protein fragment

製品の詳細

由来	Recombinant
由来	Escherichia coli

アミノ酸配列

アクセッション番号 [Q86VB7](#)

生物種 Human

配列

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MDKLRMVLHE NSGSADLKLR VVDGVTECSG
RLEVKFQGEW GTICDDGWDS DDAAVACKQL
GCPTAVTAIG RVNASEGTGH IWLDVSCHG
HESALWQCRH HEWGKHYCNH NEDAGVTCSD
GSDLELRKLG GSHCAGTVE VEIQKLVGKV
CDRSWGLKEA DVVCRQLGCG SALKTSYQVY
SKTKATNTWL FVSSCNGNET SLWDCKNWQW
GGLSCDHYDE AKITCSAHRK PRLVGGDIPC
SGRVEVQHGD TWGTVCDSD F SLEAASVLCR
ELQCGTVVSL LGGAHFGEGS GQIWAEEFQC
EGHESHLSLC PVAPRPDGTG SHSRDVGVC
SRYTQIRLVN GKTPCEGRVE LNILGSWGSL
CNSHWDMEDA HVLCQQLKCG VALSIPGGAP
FGKGSEQVWR HMFHCTGTEK HMGDCSVTAL
GASLCSSGQV ASVICSGNQS QTLSPCNSSS
SDPSSSIISE ENGVACIGSG QLRLVDGGGR
CAGRVEVYHE GSWG TICDDS WDLNDAHVVC
KQLSCGWAIN ATGSAHFGEG TGPIWLDEIN
CNGKESHIWQ CHSHGWGRHN CRHKEDAGVI
CSEFM SLRLI SENSRETCAG RLEVFYNGAW
GSVGKNSMSP ATVGVVCRQL GCADRGDISP
ASSDKTVSRH MWVDNVQCPK GPDTLWQCPS
SPWKKRLASP SEETWITCAN KIRLQEGNTN
CSGRVEIWYG GSWGTV CDDS WDL EDAQVVC
RQLGCGSALE AGKEAAFQGG TGPIWLNEVK

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CKGNETSLWD CPARSWGHS CGHKEDAAVT
CSEIAKSRES LHATGRSHHH HHHHH

分子量 87 kDa
タグ His tag C-Terminus

特性

Our [Abpromise guarantee](#) covers the use of **ab117700** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション SDS-PAGE
精製度 > 95 % SDS-PAGE.
製品の状態 Lyophilised

前処理および保存

保存方法および安定性 Shipped at 4°C. The lyophilized protein is stable for a few weeks at room temperature. Store at -20°C. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA).

pH: 7.40

Constituents: 51% Phosphate Buffer, 48.04% Urea, 0.88% Sodium chloride

再構成 It is recommended to reconstitute the lyophilized CD163 in sterile 18MO-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

関連情報

機能 Acute phase-regulated receptor involved in clearance and endocytosis of hemoglobin/haptoglobin complexes by macrophages and may thereby protect tissues from free hemoglobin-mediated oxidative damage. May play a role in the uptake and recycling of iron, via endocytosis of hemoglobin/haptoglobin and subsequent breakdown of heme. Binds hemoglobin/haptoglobin complexes in a calcium-dependent and pH-dependent manner. Exhibits a higher affinity for complexes of hemoglobin and multimeric haptoglobin of HP*1F phenotype than for complexes of hemoglobin and dimeric haptoglobin of HP*1S phenotype. Induces a cascade of intracellular signals that involves tyrosine kinase-dependent calcium mobilization, inositol triphosphate production and secretion of IL6 and CSF1. Isoform 3 exhibits the higher capacity for ligand endocytosis and the more pronounced surface expression when expressed in cells.

After shedding, the soluble form (sCD163) may play an anti-inflammatory role, and may be a valuable diagnostic parameter for monitoring macrophage activation in inflammatory conditions.

組織特異性 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.

配列類似性 Contains 9 SRCR domains.

ドメイン The SRCR domain 3 mediates calcium-sensitive interaction with hemoglobin/haptoglobin

complexes.

翻訳後修飾

A soluble form (sCD163) is produced by proteolytic shedding which can be induced by lipopolysaccharide, phorbol ester and Fc region of immunoglobulin gamma. This cleavage is dependent on protein kinase C and tyrosine kinases and can be blocked by protease inhibitors. The shedding is inhibited by the tissue inhibitor of metalloproteinase TIMP3, and thus probably induced by membrane-bound metalloproteinases ADAMs.

Phosphorylated.

細胞内局在

Secreted and Cell membrane. Isoform 1 and isoform 2 show a lower surface expression when expressed in cells.

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