PRODUCT INFORMATION

CD163L1 SRCR8 Domain (human, recombinant)

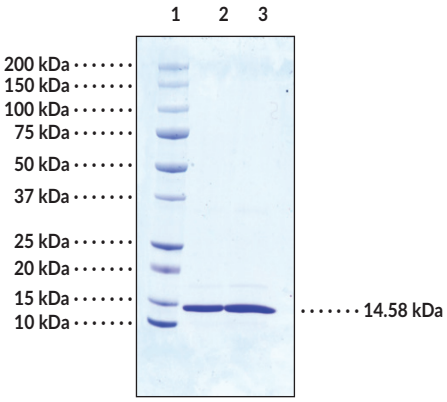
Item No. 41208

Overview and Properties

Synonyms:	CD163B, CD163L1, CD163 Antigen B, CD163 Antigen-like 1, CD163 Molecule-like 1, hCD163L SRCR8, M160, Scavenger Receptor Cysteine-rich Type 1 Protein M160
Source:	Recombinant human C-terminal His-tagged CD163L1 SRCR8 domain expressed in insect cells
Amino Acids:	790-895
Molecular Weight:	14.58 kDa
Storage:	-80°C (as supplied)
Stability:	≥6 months
Purity:	≥85% estimated by SDS-PAGE
Supplied in:	20 mM Tris, pH 8.0, 100 mM sodium chloride
Protein Concentration:	***batch specific*** mg/ml

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Image



Lane 1: MW Markers
Lane 2: CD163L1 SRCR8 Domain (2 µg)
Lane 3: CD163L1 SRCR8 Domain (4 µg)

SDS-PAGE Analysis of CD163L1 SRCR8 Domain.

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Description

CD163 molecule-like 1 (CD163L1), also known as CD163 antigen B (CD163B), is an extracellular membrane receptor and a member of the scavenger receptor cysteine-rich (SRCR) family.[1,2] It is composed of an N-terminal ectodomain, which contains 12 disulfide-rich SRCR class B domains that mediate protein-protein interactions, a transmembrane segment, and a short cytoplasmic tail.[1] Alternative splicing of CD163L1 mRNA produces two variants that differ in length of the cytoplasmic tail.[1,3] CD163L1 is found in monocytes and M2 macrophages and can be induced by colony-stimulating factor 1 (CSF1) and IL-10 in macrophages.[3] Replacement of porcine *CD163L1* SRCR5 domain with human *CD163L1* SRCR8 domain increases resistance to porcine reproductive and respiratory syndrome virus 1 (PRRSV1) infection in pigs.[4] Cayman's CD163L1 SRCR8 Domain (human, recombinant) protein consists of 105 amino acids and has a calculated molecular weight of 14.58 kDa.

References

1. Grønlund, J., Vitved, L., Lausen, M., *et al.* Cloning of a novel scavenger receptor cysteine-rich type I transmembrane molecule (M160) expressed by human macrophages. *J. Immunol.* **165(11)**, 6406-6415 (2000).
2. Etzerodt, A. and Moestrup, S.K. CD163 and inflammation: Biological, diagnostic, and therapeutic aspects. *Antioxid. Redox Signal.* **18(17)**, 2352-2363 (2013).
3. González-Domínguez, É., Samaniego, R., Flores-Sevilla, J.L., *et al.* CD163L1 and CLEC5A discriminate subsets of human resident and inflammatory macrophages in vivo. *J. Leukoc. Biol.* **98(4)**, 453-466 (2015).
4. Wells, K.D., Bardot, R., Whitworth, K.M., *et al.* Replacement of porcine CD163 scavenger receptor cysteine-rich domain 5 with a CD163-like homolog confers resistance of pigs to genotype 1 but not genotype 2 porcine reproductive and respiratory syndrome virus. *J. Virol.* **91(2)**, e01521-e015316 (2017).

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