Anti-Human CD163 Antibody [PSH13-80] - BSA and Azide free (Capture)

HA723569



Species reactivity: Human

Applications: ELISA(Cap)
Clone number: PSH13-80

Description: CD163, also designated M130, is a macrophage-associated antigen that is a member of the

scavenger receptor cysteine-rich (SRCR) superfamily. It is highly expressed on macrogphages and to a lesser extent on monocytes. The acute phase-regulated and signal-inducing macrophage protein, CD163, is a receptor that scavenges hemoglobin by mediating endocytosis of haptoglobin-hemoglobin complexes. CD163 binds only haptoglobin and hemoglobin in complex, which indicates the exposure of a receptor-binding neoepitope. The receptor-ligand interaction is calcium-dependent and of high affinity. The existence of several CD163 isoforms, which differ in the structure of their cytoplasmic domains and putative phosphorylation sites, suggests that these isoforms also differ in their signaling

mechanism. The gene which encodes CD163 maps to human chromosome 12p13.31.

Immunogen: Recombinant protein within Human CD163 aa 42-1,050 (HA211143).

Positive control: Recombinant Human CD163 protein (HA211143).

Subcellular location: Cell membrane; Secreted.

Database links: SwissProt: Q86VB7 Human

Recommended Dilutions:

ELISA(Cap) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit

monoclonal [PSH13-79] to Human CD163 antibody (Detector) (HA723567) and recombinant Human CD163 protein (HA211143) as the standard. The reference range value is 78.1-

10,000 pg/mL.

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at +4 $^{\circ}$ C after thawing. Aliquot store at -20 $^{\circ}$ C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Technical:0086-571-89986345

Service mail:support@huabio.cn



Images

Standard curve of Human CD163 matched pair antibodies

10

0.01

0.001

1 10 100 1000 10000 100000

Recombinant Human CD163 protein (pg/ml)

Fig1: Sandwich ELISA analysis of human CD163 matched pair antibodies

Capture: HA723569, Human CD163 Rabbit mAb [PSH13-80] Detector: HA723567, Human CD163 Rabbit mAb [PSH13-79]

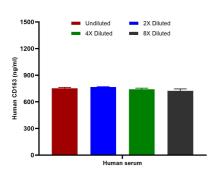


Fig2: Interpolated concentrations of native CD163 in human serum samples.

Capture: HA723569, Human CD163 Rabbit mAb [PSH13-80] Detector: HA723567, Human CD163 Rabbit mAb [PSH13-79]

The concentrations of CD163 were measured in duplicates, interpolated from the CD163 standard curve and corrected for sample dilution. Undiluted samples are human serum 0.5%. The interpolated dilution factor corrected values are plotted (mean +/-SD, n=2). The mean CD163 concentration was determined to be 745.9 ng/ml in human serum.

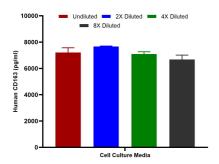


Fig3: Interpolated concentrations of spiked CD163 in human cell culture media samples.

Capture: HA723569, Human CD163 Rabbit mAb [PSH13-80] Detector: HA723567, Human CD163 Rabbit mAb [PSH13-79]

The concentrations of CD163 were measured in duplicates, interpolated from the CD163 standard curves and corrected for sample dilution. Undiluted samples are as follows: cell culture media 25%. The interpolated dilution factor corrected values are plotted (mean +/- SD, n=2).

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Background References

- 1. Mori M et al. CD163(+) Macrophages Induce Endothelial-to-Mesenchymal Transition in Atheroma. Circ Res. 2024 Jul
- 2. Rowland RRR et al. Role of CD163 in PRRSV infection. Virology. 2024 Dec