**BACKGROUND**

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 macrophages 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.

**CHROMOSOMAL LOCATION**

Genetic locus: CD163 (human) mapping to 12p13.31.

**SOURCE**

CD163 (GHI/61) is a mouse monoclonal antibody raised against hairy cell leukaemia.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CD163 (GHI/61) is available conjugated to agarose (sc-20066 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-20066 HRP), 200 µg/ml, for WB, IHC and ELISA; to either phycoerythrin (sc-20066 PE), fluorescein (sc-20066 FITC), Alexa Fluor® 488 (sc-20066 AF488), Alexa Fluor® 546 (sc-20066 AF546), Alexa Fluor® 594 (sc-20066 AF594) or Alexa Fluor® 647 (sc-20066 AF647), 200 µg/ml, for WB (RGB), IF, IHC and FCM; and to either Alexa Fluor® 680 (sc-20066 AF680) or Alexa Fluor® 790 (sc-20066 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

CD163 (GHI/61) is recommended for detection of CD163 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10^6 cells).

Suitable for use as control antibody for CD163 siRNA (h): sc-42834, CD163 shRNA Plasmid (h): sc-42834-SH and CD163 shRNA (h) Lentiviral Particles: sc-42834-V.

Molecular Weight of CD163: 130 kDa.

Positive Controls: THP-1 cell lysate: sc-2238.

**STORAGE**

Store at 4°C. **“DO NOT FREEZE”**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**DATA**


**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

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