

---

## CD163 (Clone ZM29)

### Mouse Monoclonal Antibody

**Specificity:** Human. Others not tested

**Immunogen:** Recombinant human CD163 fragment (around aa 43-196)

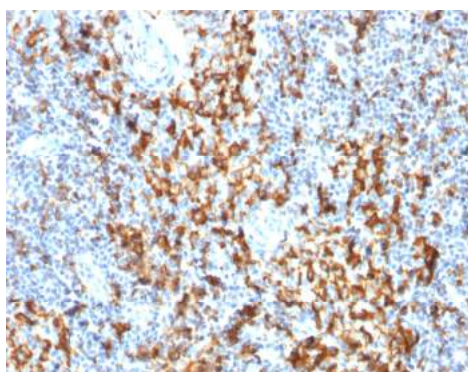
**Ig Class:** IgG2b/ $\kappa$

**Storage:** Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

**Staining procedures:** Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:100-200. *Positive Control:* Liver. *Cellular Localization:* Cytoplasmic and membrane. *Intended Use:* In vitro diagnosis (IVD).

**Description:** This MAb recognizes a protein of 140kDa, identified as CD163. It has been identified as an acute phase-regulated transmembrane protein whose function is to mediate the endocytosis of haptoglobin-hemoglobin complexes. This receptor is expressed on the surface of monocytes with low expression and on tissue macrophages, histiocytes with high expression. Staining with anti-CD163 has been helpful to distinguish synovial macrophages from synovial intimal fibroblasts in rheumatoid arthritis, where its specificity for macrophages was found to be superior to that of anti-CD68. Increased levels of CD163 were also detected in patients with microbial infections and myelomonocytic leukemias. Anti-CD163 is of considerable value for selective identification of monocytes and macrophages at a certain stage of differentiation and is suitable for diagnosing myelomonocytic or monocytic leukaemia and neoplasms of true histiocytic origin. CD163 is positive in skin (histiocytes), gut, Kupffer cells, a few alveolar macrophages, macrophages in the placenta, and in macrophages in inflamed tissues including tumor tissue.

**Supplied As:** Tissue culture supernatant with 0.2% BSA and 15mM sodium azide.



*Formalin-fixed, paraffin-embedded human lymph node stained with anti-CD163 antibody using peroxidase-conjugate and DAB chromogen. Note membrane staining of histiocytes*

Cat. #Z2361 (1.0 ml)