

## CD163 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50058

Clone# BP6063

**Predicted Molecular Wt:** 125kDa

**Purity:** ProA affinity purified IgG

**Species Cross-reactivity:** Human

**Form:** Liquid

**Applications:** IHC-P

**Swissprot ID:** Q86VB7

### Background:

CD163 is a type I membrane protein, and is a member of the hemoglobin scavenger receptor cystein-rich superfamily. The protein is involved in the clearance of hemoglobin-haptoglobin complexes and is considered to have anti-inflammatory functions.

CD163 expression is restricted to the monocytic/macrophage lineage. It is expressed by all circulating monocytes and by a majority of tissue macrophages, such as splenic dendrocytes, alveolar macrophages and Kupffer cells of the liver. It is not present in macrophages in the mantle zone and some of the germinal center cells in lymph follicles, nor in Langerhans cells and interdigitating reticulum cells. In tumor tissues, CD163 is found in almost all cases of acute myeloid leukemia with monocytoid differentiation and in the majority of cases of histiocytic sarcoma, littoral cell angioma, Rosai-Dorfman disease, Langerhans cell histiocytosis and typical and atypical fibrous histiocytoma. It is also expressed in some cases of dermatofibrosarcoma protuberans.

CD163 can be used to detect cells of monocytic and histiocyte lineage in neoplastic and reactive lesions. It has been shown to be more sensitive than CD68 for the detection of macrophages and monocytic cells. It covers a similar, but not identical, spectrum of cells as CD68.

### Subcellular location:

Membrane

### Recommended method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

### Immunogen:

Synthetic peptide corresponding to CD163 residues within aa1056-1156 of CD163 was used as an immunogen.

### Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

### Storage conditions:

-20°C

### Storage instructions:

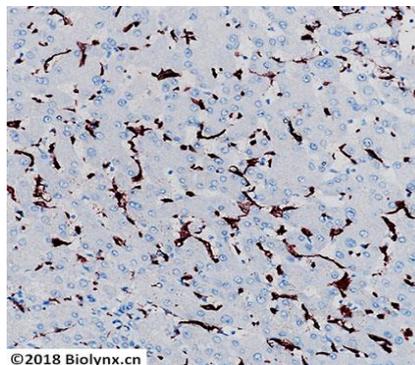
Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

### Recommended Dilutions:

IHC-P: 1:100-1:200

### Background References:

1. Garcia C, et al. Appl Immunohistochem Mol Morphol 2008, 16(5), 417-21.
2. Nguyen TT, et al. Am J Surg Pathol 2005, 29(5), 617-24.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections analysis of liver tissue labelling CD163 with BP6063. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0

Product QC'd by: 

**For research use only. Not for use in diagnostic or therapeutic applications.**