

#93498 Store at -20°C

## CD163 (D6U1J) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IHC-Bond, IHC-P	H Mk	Endogenous	160, 170	Rabbit IgG	#Q86VB7	9332

### Product Usage Information

#### Application

Western Blotting  
IHC Leica Bond  
Immunohistochemistry (Paraffin)

#### Dilution

1:1000  
1:200 - 1:800  
1:250 - 1:1000

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #25121.

### Specificity / Sensitivity

CD163 (D6U1J) Rabbit mAb recognizes endogenous levels of total CD163 protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the human CD163 protein.

### Background

CD163 is a transmembrane scavenger receptor expressed on the macrophage surface. It has 9 B-type Scavenger Receptor Cysteine-Rich (SRCR) extracellular domains mediating serum haptoglobin clearing/endocytosis, pathogen binding and signal transduction, and calcium binding (1,2). CD163 is used as a surface marker of M2 type macrophages, including M2 type tumor-associated macrophages (TAMs), which facilitate cancer progression by secreting cytokines to promote angiogenesis, immunosuppression, and metastasis (3). Inflammatory stimulation and stress signals can induce extracellular domain shedding of CD163 to generate soluble CD163 (sCD163). The increased sCD163 level in serum is associated with low-grade inflammation in disease conditions (4-7).

### Background References

1. Graversen, J.H. and Moestrup, S.K. (2015) *Membranes (Basel)* 5, 228-52.
2. Etzerodt, A. and Moestrup, S.K. (2013) *Antioxid Redox Signal* 18, 2352-63.
3. Komohara, Y. et al. (2014) *Cancer Sci* 105, 1-8.
4. Zhi, Y. et al. (2017) *Mol Med Rep* 15, 2931-2939.
5. Møller, H.J. et al. (2011) *Clin Chem* 57, 291-7.
6. Grønbaek, H. et al. (2012) *Aliment Pharmacol Ther* 36, 173-80.
7. Aristoteli, L.P. et al. (2006) *Atherosclerosis* 184, 342-7.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**WB:** Western Blotting **IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin)

### Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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