

## Product datasheet

# Anti-CD163 antibody [BLR087G] ab265592

Recombinant

[4 Images](#)

### Overview

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<b>Product name</b>	Anti-CD163 antibody [BLR087G]
<b>Description</b>	Rabbit monoclonal [BLR087G] to CD163
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide within Human CD163 aa 850-900. The exact sequence is proprietary. NP_004235.4 Database link: <a href="#">Q86VB7</a>
<b>Positive control</b>	IHC-P: Human liver carcinoma and lung carcinoma tissue. Human lung carcinoma pleural fluid.
<b>General notes</b>	This product is sold under License from Bethyl Laboratories, Inc.

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.8 Preservative: 0.09% Sodium azide Constituents: 99% Borate buffered saline, 0.1% BSA
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	Purified from cell culture supernatant.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	BLR087G
<b>Isotype</b>	IgG

### Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab265592 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/100 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

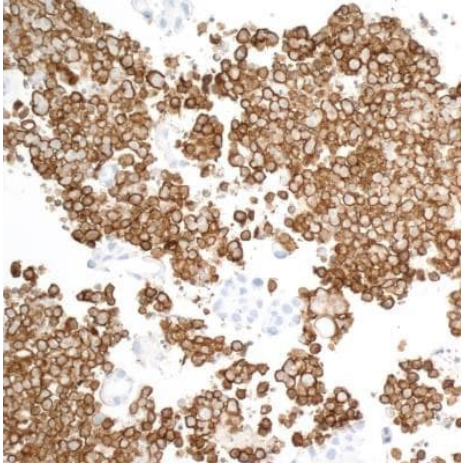
## Target

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<b>Function</b>	<p>Acute phase-regulated receptor involved in clearance and endocytosis of hemoglobin/haptoglobin complexes by macrophages and may thereby protect tissues from free hemoglobin-mediated oxidative damage. May play a role in the uptake and recycling of iron, via endocytosis of hemoglobin/haptoglobin and subsequent breakdown of heme. Binds hemoglobin/haptoglobin complexes in a calcium-dependent and pH-dependent manner. Exhibits a higher affinity for complexes of hemoglobin and multimeric haptoglobin of HP*1F phenotype than for complexes of hemoglobin and dimeric haptoglobin of HP*1S phenotype. Induces a cascade of intracellular signals that involves tyrosine kinase-dependent calcium mobilization, inositol triphosphate production and secretion of IL6 and CSF1. Isoform 3 exhibits the higher capacity for ligand endocytosis and the more pronounced surface expression when expressed in cells. After shedding, the soluble form (sCD163) may play an anti-inflammatory role, and may be a valuable diagnostic parameter for monitoring macrophage activation in inflammatory conditions.</p>
<b>Tissue specificity</b>	<p>Expressed in monocytes and mature macrophages such as Kupffer cells in the liver, red pulp macrophages in the spleen, cortical macrophages in the thymus, resident bone marrow macrophages and meningeal macrophages of the central nervous system. Expressed also in blood. Isoform 1 is the lowest abundant in the blood. Isoform 2 is the lowest abundant in the liver and the spleen. Isoform 3 is the predominant isoform detected in the blood.</p>
<b>Sequence similarities</b>	<p>Contains 9 SRCR domains.</p>
<b>Domain</b>	<p>The SRCR domain 3 mediates calcium-sensitive interaction with hemoglobin/haptoglobin complexes.</p>
<b>Post-translational modifications</b>	<p>A soluble form (sCD163) is produced by proteolytic shedding which can be induced by lipopolysaccharide, phorbol ester and Fc region of immunoglobulin gamma. This cleavage is dependent on protein kinase C and tyrosine kinases and can be blocked by protease inhibitors. The shedding is inhibited by the tissue inhibitor of metalloproteinase TIMP3, and thus probably induced by membrane-bound metalloproteinases ADAMs. Phosphorylated.</p>
<b>Cellular localization</b>	<p>Secreted and Cell membrane. Isoform 1 and isoform 2 show a lower surface expression when expressed in cells.</p>

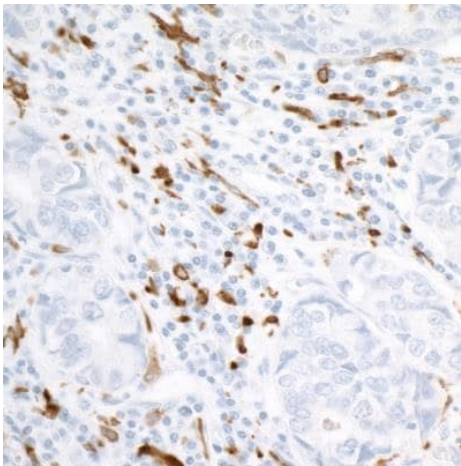
## Images

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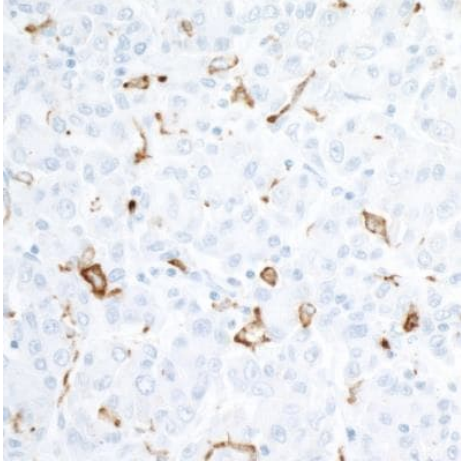
Immunohistochemical analysis of formalin-fixed, paraffin-embedded human lung carcinoma pleural fluid tissue labeling CD163 with ab265592 at 1/100 dilution. Secondary: HRP-conjugated goat anti-rabbit IgG. Substrate: DAB.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD163 antibody [BLR087G] (ab265592)



Immunohistochemical analysis of formalin-fixed, paraffin-embedded human lung carcinoma tissue labeling CD163 with ab265592 at 1/100 dilution. Secondary: HRP-conjugated goat anti-rabbit IgG. Substrate: DAB.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD163 antibody [BLR087G] (ab265592)



Immunohistochemical analysis of formalin-fixed, paraffin-embedded human liver carcinoma tissue labeling CD163 with ab265592 at 1/100 dilution. Secondary: HRP-conjugated goat anti-rabbit IgG. Substrate: DAB.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD163 antibody [BLR087G] (ab265592)

### Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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