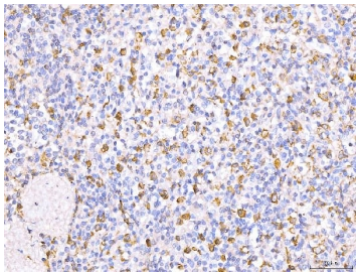
CD163 Antibody (RQ4259)

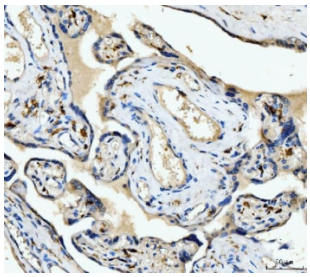
Catalog No.	Formulation	Size
RQ4259	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

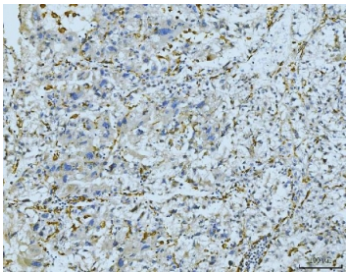
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q86VB7
Localization	Cytoplasm, cell membrane, secreted
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This CD163 antibody is available for research use only.



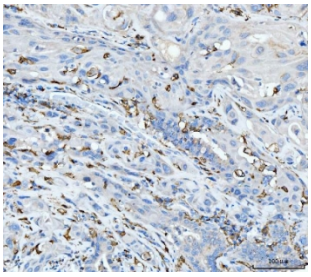
IHC staining of FFPE human spleen tissue with CD163 antibody at 1ug/ml. Required HIER: steam section in pH8 EDTA for 20 min and allow to cool prior to staining.



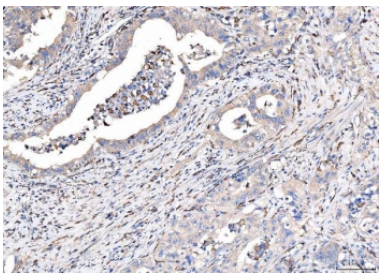
IHC staining of FFPE human placental tissue with CD163 antibody at 1ug/ml. Required HIER: steam section in pH8 EDTA for 20 min and allow to cool prior to staining.



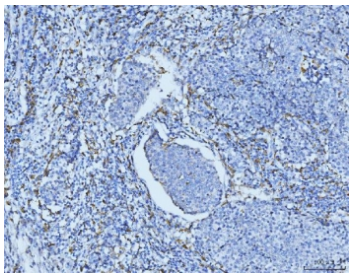
IHC staining of FFPE human liver cancer tissue with CD163 antibody at 1ug/ml. Required HIER: steam section in pH8 EDTA for 20 min and allow to cool prior to staining.



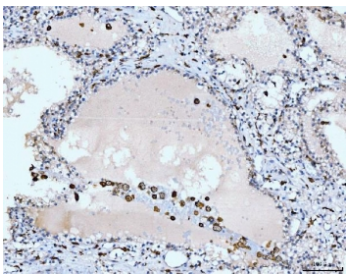
IHC staining of FFPE human gall bladder adenosquamous carcinoma tissue with CD163 antibody at 1ug/ml. Required HIER: steam section in pH8 EDTA for 20 min and allow to cool prior to staining.



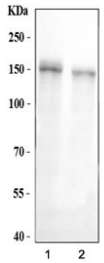
IHC staining of FFPE human appendiceal adenocarcinoma tissue with CD163 antibody at 1ug/ml. Required HIER: steam section in pH8 EDTA for 20 min and allow to cool prior to staining.



IHC staining of FFPE human lung cancer tissue with CD163 antibody at 1ug/ml. Required HIER: steam section in pH8 EDTA for 20 min and allow to cool prior to staining.



IHC staining of FFPE human rectal cancer tissue with CD163 antibody at 1ug/ml. Required HIER: steam section in pH8 EDTA for 20 min and allow to cool prior to staining.



Western blot testing of human 1) HCCT and 2) HCCP cell lysate with CD163 antibody. Expected molecular weight: 125-175 kDa depending on glycosylation level.

Description

CD163 (Cluster of Differentiation 163) is a protein that in humans is encoded by the CD163 gene. The protein encoded by this gene is a member of the scavenger receptor cysteine-rich (SRCR) superfamily, and is exclusively expressed in monocytes and macrophages. It functions as an acute phase-regulated receptor involved in the clearance and endocytosis of hemoglobin/haptoglobin complexes by macrophages, and may thereby protect tissues from free hemoglobin-mediated oxidative damage. This protein may also function as an innate immune sensor for bacteria and inducer of local inflammation. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.

Application Notes

Optimal dilution of the CD163 antibody should be determined by the researcher.

Immunogen

A recombinant human protein corresponding to amino acids T47-E201 was used as the immunogen for the CD163 antibody.

Storage

After reconstitution, the CD163 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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