

# Anti-Hemoglobin subunit alpha antibody [EPR3608] ab92492

Recombinant RabMAb

★★★★★ **2 Abreviews** **23 References** [10 Images](#)

### Overview

<b>Product name</b>	Anti-Hemoglobin subunit alpha antibody [EPR3608]
<b>Description</b>	Rabbit monoclonal [EPR3608] to Hemoglobin subunit alpha
<b>Host species</b>	Rabbit
<b>Specificity</b>	This antibody gave a positive signal in Western blotting of rat brain, heart, kidney and spleen tissue. This antibody works in human, mouse and rat in IHC.
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P <b>Unsuitable for:</b> Flow Cyt or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide corresponding to Human Hemoglobin subunit alpha aa 50-150. (Peptide available as <b>ab206105</b> )
<b>Positive control</b>	K562 cell lysate, human heart lysate, human spleen tissue, human stomach cancer tissue, human lung tissue, human placenta, rat heart lysate, mouse spleen lysate and mouse cerebral cortex.
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

### Properties

<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. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA

<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR3608
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab92492 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

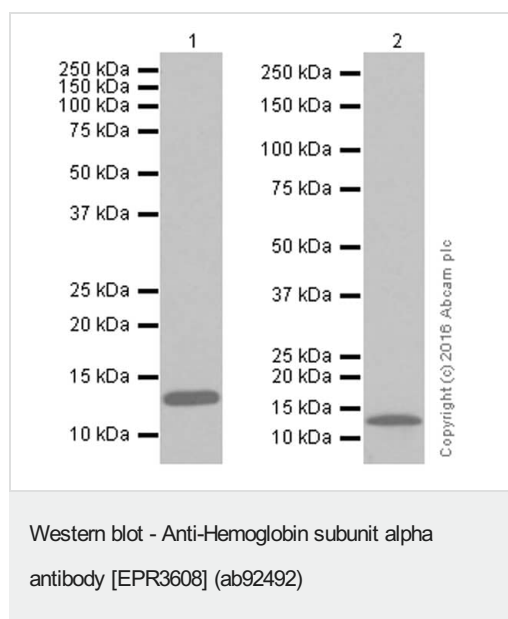
Application	Abreviews	Notes
<b>WB</b>		1/1000 - 1/2000. Detects a band of approximately 14 kDa (predicted molecular weight: 15 kDa). Can be blocked with <b>Hemoglobin subunit alpha peptide (ab206105)</b> .
<b>IHC-P</b>		1/100 - 1/500. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol. See <b>IHC antigen retrieval protocols</b> .

**Application notes** Is unsuitable for Flow Cyt or IP.

## Target

<b>Function</b>	Involved in oxygen transport from the lung to the various peripheral tissues.
<b>Tissue specificity</b>	Red blood cells.
<b>Involvement in disease</b>	Heinz body anemias Alpha-thalassemia Alpha(0)-thalassemia is associated with non-immune hydrops fetalis, a generalized edema of the fetus with fluid accumulation in the body cavities due to non-immune causes. Non-immune hydrops fetalis is not a diagnosis in itself but a symptom, a feature of many genetic disorders, and the end-stage of a wide variety of disorders. Hemoglobin H disease
<b>Sequence similarities</b>	Belongs to the globin family.
<b>Post-translational modifications</b>	The initiator Met is not cleaved in variant Thionville and is acetylated.

## Images



**All lanes :** Anti-Hemoglobin subunit alpha antibody [EPR3608] (ab92492) at 1/2000 dilution (purified)

**Lane 1 :** Human heart lysate

**Lane 2 :** Rat heart lysate

Lysates/proteins at 15 µg per lane.

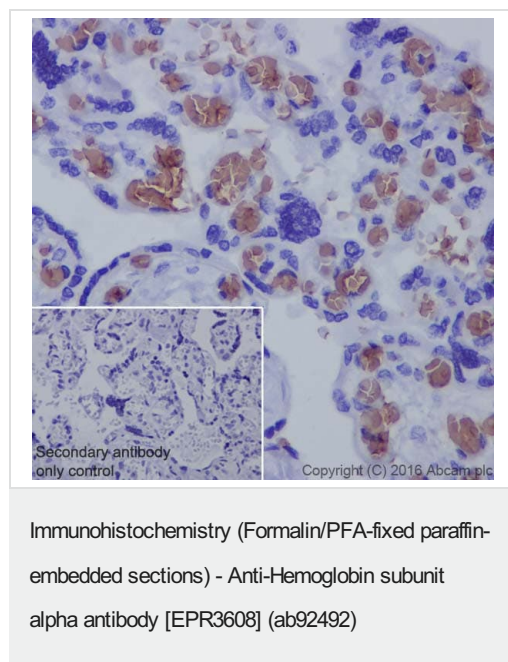
### Secondary

**All lanes :** Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/10000 dilution

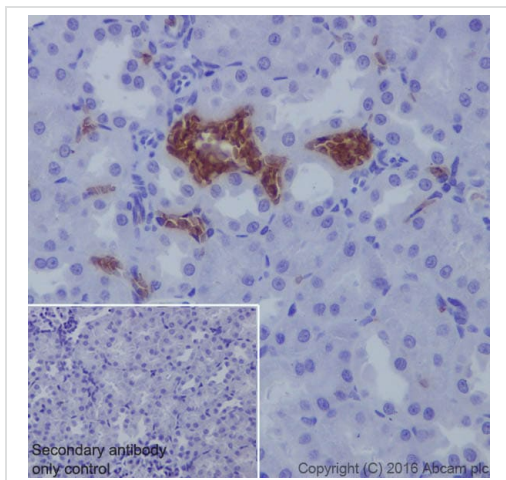
**Predicted band size:** 15 kDa

**Observed band size:** 14 kDa

Blocking and diluting buffer: 5% NFDM/TBST.

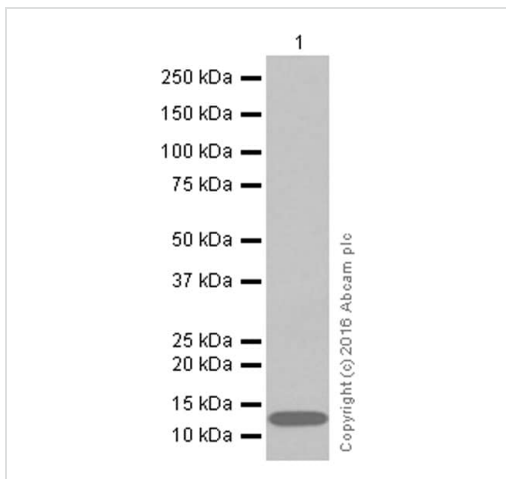


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human placenta tissue labeling Hemoglobin subunit alpha antibody with purified ab92492 at 1/500 dilution (1.4 µg/ml). Heat mediated antigen retrieval was performed using EDTA Buffer, PH9. [ab97051](#), a HRP-conjugated goat anti-rabbit IgG H&L was used as the secondary antibody at 1/500 dilution. Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat kidney tissue labeling Hemoglobin subunit alpha antibody with purified ab92492 at 1/500 dilution (1.4 µg/ml). Heat mediated antigen retrieval was performed using EDTA Buffer, PH9. **ab97051**, a HRP-conjugated goat anti-rabbit IgG H&L was used as the secondary antibody at 1/500 dilution. Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hemoglobin subunit alpha antibody [EPR3608] (ab92492)



Anti-Hemoglobin subunit alpha antibody [EPR3608] (ab92492) at 1/10000 dilution (purified) + Mouse spleen lysate at 15 µg

#### Secondary

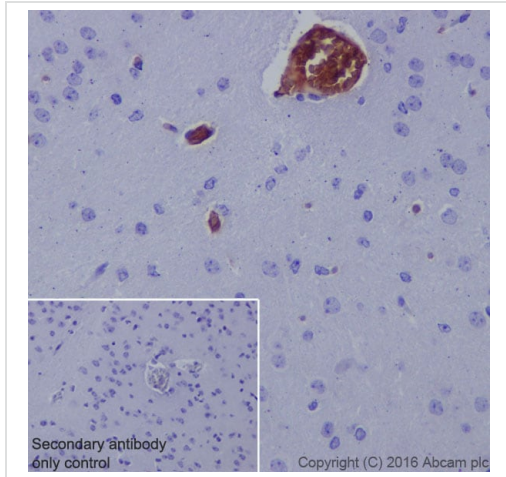
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/10000 dilution

**Predicted band size:** 15 kDa

**Observed band size:** 14 kDa

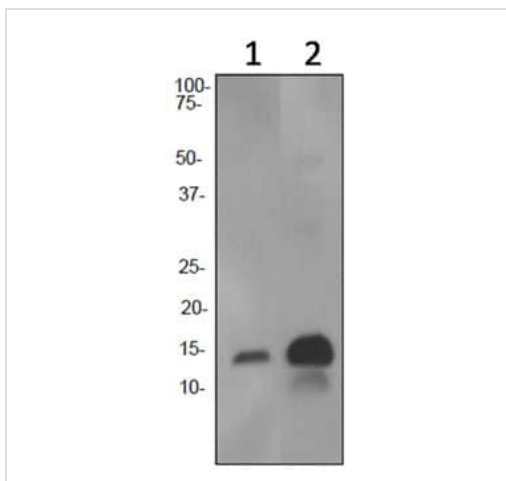
Western blot - Anti-Hemoglobin subunit alpha antibody [EPR3608] (ab92492)

Blocking and diluting buffer and concentration: 5% NFDM /TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hemoglobin subunit alpha antibody [EPR3608] (ab92492)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse cerebral cortex tissue labeling Hemoglobin subunit alpha antibody with purified ab92492 at 1/500 dilution (1.4 µg/ml). Heat mediated antigen retrieval was performed using EDTA Buffer, PH9. **ab97051**, a HRP-conjugated goat anti-rabbit IgG H&L was used as the secondary antibody at 1/500 dilution. Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Western blot - Anti-Hemoglobin subunit alpha antibody [EPR3608] (ab92492)

**All lanes** : Anti-Hemoglobin subunit alpha antibody [EPR3608] (ab92492) at 1/1000 dilution (unpurified)

**Lane 1** : K562 cell lysate

**Lane 2** : Human heart lysate

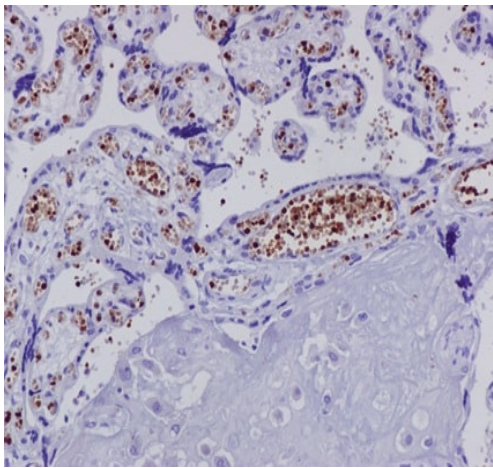
Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes** : HRP labelled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 15 kDa

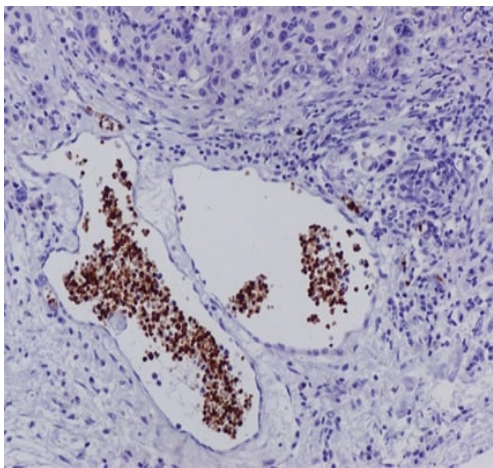
**Observed band size:** 14 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hemoglobin subunit alpha antibody [EPR3608] (ab92492)

Immunohistochemical analysis of paraffin embedded human placenta tissue labeling hemoglobin subunit alpha with unpurified ab92492 at 0.051 µg/ml (1:40000 dilution).

Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.

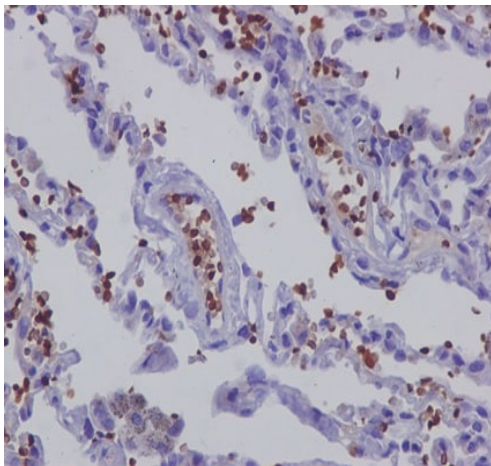


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hemoglobin subunit alpha antibody [EPR3608] (ab92492)

Immunohistochemical analysis of paraffin embedded human stomach cancer tissue labeling hemoglobin subunit alpha with unpurified ab92492 at 0.051 µg/ml (1:40000 dilution).

Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.





Immunohistochemical analysis of paraffin embedded human placenta tissue labeling hemoglobin subunit alpha with unpurified ab92492 at 0.051 µg/ml (1:40000 dilution).

Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hemoglobin subunit alpha antibody [EPR3608] (ab92492)

#### Why choose a recombinant antibody?



Anti-Hemoglobin subunit alpha antibody [EPR3608] (ab92492)

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