

Anti-Hemoglobin subunit beta antibody [EPR20614] ab214049

リコンビナント **RabMAb**

3 References **画像数 6**

製品の概要

製品名	Anti-Hemoglobin subunit beta antibody [EPR20614]
製品の詳細	Rabbit monoclonal [EPR20614] to Hemoglobin subunit beta
由来種	Rabbit
アプリケーション	適用あり: WB, IP
種交差性	交差種: Mouse, Rat, Human
免疫原	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: TF-1 cell lysate; Human lung and fetal heart lysates; Rat heart lysate; Mouse heart and lung lysates. IP: TF-1 cell lysate.
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), PBS</p>
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR20614
アイソタイプ	IgG

アプリケーション

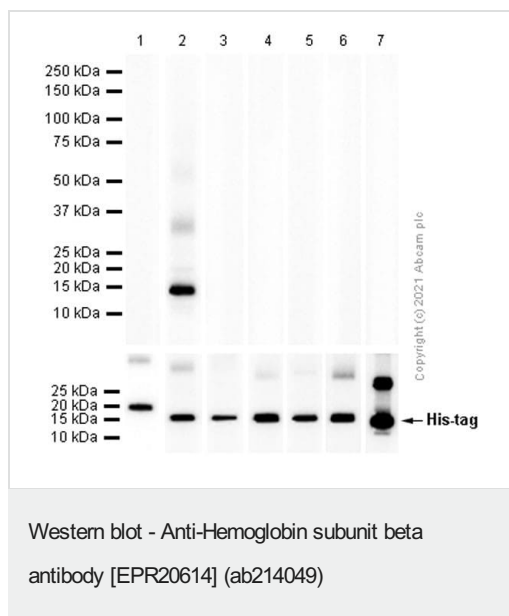
The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab214049の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/1000. Detects a band of approximately 13 kDa (predicted molecular weight: 15 kDa).
IP		1/40.

ターゲット情報

機能	Involved in oxygen transport from the lung to the various peripheral tissues. LVV-hemorphin-7 potentiates the activity of bradykinin, causing a decrease in blood pressure. Spinorphin: functions as an endogenous inhibitor of enkephalin-degrading enzymes such as DPP3, and as a selective antagonist of the P2RX3 receptor which is involved in pain signaling, these properties implicate it as a regulator of pain and inflammation.
組織特異性	Red blood cells.
関連疾患	Heinz body anemias Beta-thalassemia Sickle cell anemia Beta-thalassemia, dominant, inclusion body type
配列類似性	Belongs to the globin family.
翻訳後修飾	Glucose reacts non-enzymatically with the N-terminus of the beta chain to form a stable ketoamine linkage. This takes place slowly and continuously throughout the 120-day life span of the red blood cell. The rate of glycation is increased in patients with diabetes mellitus. S-nitrosylated; a nitric oxide group is first bound to Fe(2+) and then transferred to Cys-94 to allow capture of O(2). Acetylated on Lys-60, Lys-83 and Lys-145 upon aspirin exposure.

画像



All lanes : Anti-Hemoglobin subunit beta antibody [EPR20614] (ab214049) at 1/1000 dilution

Lane 1 : Recombinant Human Hemoglobin subunit alpha protein (denatured) ([ab131697](#))

Lane 2 : His-tagged human Hemoglobin subunit beta/ba1 (aa3-147) recombinant protein

Lane 3 : His-tagged human Hemoglobin subunit delta (aa3-147) recombinant protein

Lane 4 : His-tagged human Hemoglobin subunit epsilon (aa3-147) recombinant protein

Lane 5 : His-tagged human Hemoglobin subunit Gamma-2 (aa2-147) recombinant protein

Lane 6 : His-tagged human Hemoglobin subunit Gamma-1 (aa2-147) recombinant protein

Lane 7 : Recombinant Human Hemoglobin subunit zeta protein ([ab95347](#))

Lysates/proteins at 0.01 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

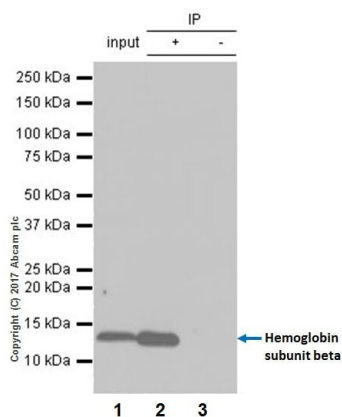
Developed using the ECL technique.

Predicted band size: 15 kDa

Observed band size: 15 kDa

Exposure time: 3 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.



Immunoprecipitation - Anti-Hemoglobin subunit beta antibody [EPR20614] (ab214049)

Hemoglobin subunit beta was immunoprecipitated from 0.35 mg of TF-1 (human bone marrow erythroleukemia cell line) lysate with ab214049 at 1/40 dilution. Western blot was performed from the immunoprecipitate using ab214049 at 1/1,000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10,000 dilution

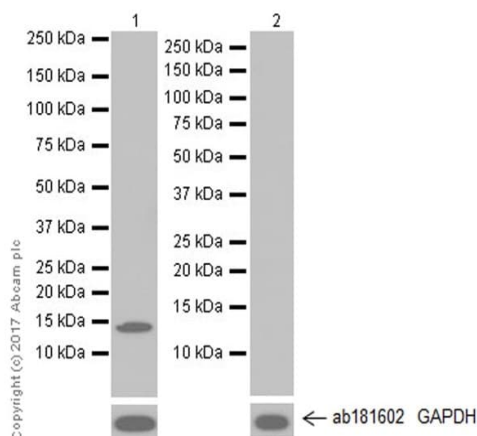
Lane 1: TF-1 whole cell lysate 10 µg (Input).

Lane 2: ab214049 IP in TF-1 whole cell lysate (+).

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab214049 in TF-1 whole cell lysate (-).

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

Exposure time: 3 minutes.



Western blot - Anti-Hemoglobin subunit beta antibody [EPR20614] (ab214049)

All lanes : Anti-Hemoglobin subunit beta antibody [EPR20614] (ab214049) at 1/1000 dilution

Lane 1 : TF-1 (human bone marrow erythroleukemia cell line) whole cell lysate

Lane 2 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Developed using the ECL technique.

Predicted band size: 15 kDa

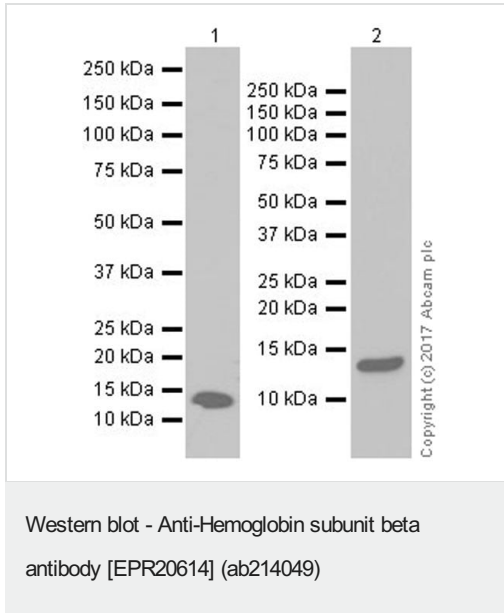
Observed band size: 13 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

Positive Control: Anti-GAPDH antibody [ab181602](#) (below)

It has been shown that hemoglobin subunit beta/ba1 is not expressed in HEK-293 cells.



All lanes : Anti-Hemoglobin subunit beta antibody [EPR20614] (ab214049) at 1/10000 dilution

Lane 1 : Human fetal heart lysate at 10 µg

Lane 2 : Human lung lysate at 20 µg

Secondary

All lanes : VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) at 1/4000 dilution

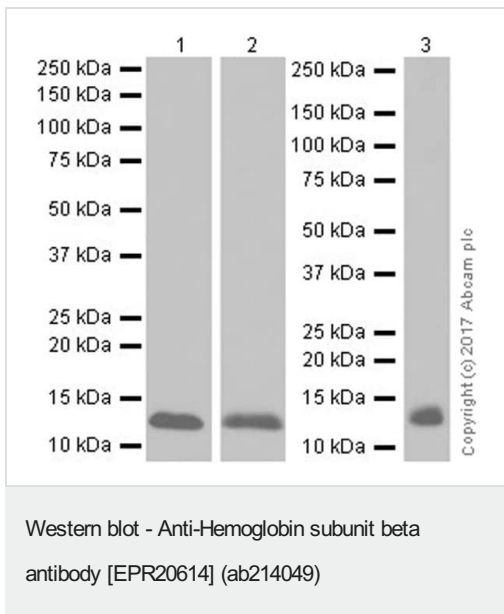
Developed using the ECL technique.

Predicted band size: 15 kDa

Observed band size: 13 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Lanes 1 & 3 : Anti-Hemoglobin subunit beta antibody [EPR20614] (ab214049) at 1/1000 dilution

Lane 2 : Anti-Hemoglobin subunit beta antibody [EPR20614] (ab214049) at 1/10000 dilution

Lane 1 : Rat heart lysate at 20 µg

Lane 2 : Mouse heart lysate at 20 µg

Lane 3 : Mouse lung lysate at 10 µg

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Developed using the ECL technique.

Predicted band size: 15 kDa

Observed band size: 13 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure times: Lane 1-2: 3 minutes; Lane 3: 10 seconds.

Why choose a recombinant antibody?



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

Anti-Hemoglobin subunit beta antibody [EPR20614]
(ab214049)

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