abcam

Product datasheet

Anti-Ceruloplasmin antibody ab48614

★★★★★ 2 Abreviews 13 References 画像数 2

製品の概要

製品名	Anti-Ceruloplasmin antibody
製品の詳細	Rabbit polyclonal to Ceruloplasmin
由来種	Rabbit
アプリケーション	**適用あり:** IHC-P, IP, RIA, EIA, ELISA, ICC/IF, WB, IHC-FoFr
種交差性	**交差種:** Human
免疫原	Human ceruloplasmin purified from human plasma
特記事項	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 49.98% PBS, 50% Glycerol (glycerin, glycerine)
精製度	Protein G purified
ポリ/モノ	ポリクローナル
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ab48614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
IHC-P		Use a concentration of 2 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
IP		Use at an assay dependent concentration.
RIA		Use at an assay dependent concentration.
EIA		Use at an assay dependent concentration.
ELISA		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
WB	★★★★☆ (1)	Use at an assay dependent concentration. Predicted molecular weight: 122 kDa.
IHC-FoFr	★★★★★ (1)	Use at an assay dependent concentration.

ターゲット情報

機能
Ceruloplasmin is a blue, copper-binding (6-7 atoms per molecule) glycoprotein. It has ferroxidase activity oxidizing Fe(2+) to Fe(3+) without releasing radical oxygen species. It is involved in iron transport across the cell membrane.

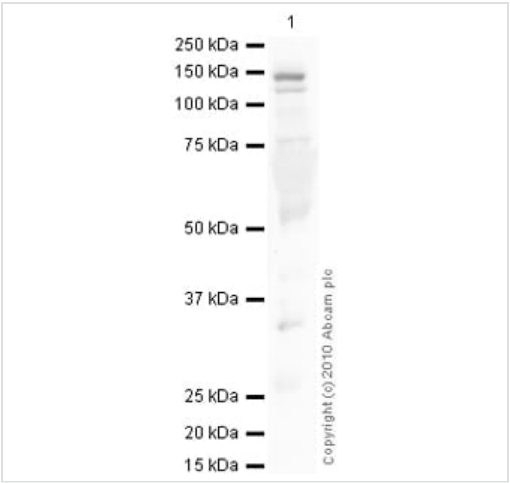
組織特異性
Expressed by the liver and secreted in plasma.

関連疾患
Defects in CP are the cause of aceruloplasminemia (ACERULOP) [MIM:604290]. It is an autosomal recessive disorder of iron metabolism characterized by iron accumulation in the brain as well as visceral organs. Clinical features consist of the triad of retinal degeneration, diabetes mellitus and neurological disturbances.
Note=Ceruloplasmin levels are decreased in Wilson disease, in which copper cannot be incorporated into ceruloplasmin in liver because of defects in the copper-transporting ATPase 2.

配列類似性
Belongs to the multicopper oxidase family.
Contains 3 F5/8 type A domains.
Contains 6 plastocyanin-like domains.

細胞内局在
Secreted.

画像



Western blot - Anti-Ceruloplasmin antibody (ab48614)

Anti-Ceruloplasmin antibody (ab48614) at 1 µg/ml + Human Plasma Total Protein Lysate at 10 µg

Secondary
Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

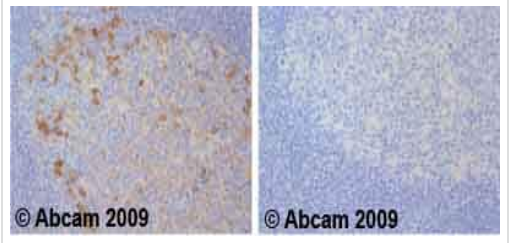
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 122 kDa
Observed band size: 122,148 kDa
Additional bands at: 34 kDa, 76 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 30 seconds

Ceruloplasmin contains a number of potential glycosylation sites (SwissProt) which may explain its migration at a higher molecular weight than predicted (148 kDa).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ceruloplasmin antibody (ab48614)

Ab48614 staining human tonsil. Staining is localized to the cytoplasm.
Left panel: with primary antibody at 2 ug/ml. Right panel: isotype control.
Sections were stained using an automated system (Dako PT Link), at room temperature. Sections were rehydrated and antigen retrieved with the Dako 3-in-1 antigen retrieval buffer, EDTA pH 9.0. Slides were peroxidase blocked in 3% H_2O_2 in methanol for 10 minutes. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 minutes and detected with Dako Envision Flex amplification kit for 30 minutes. Colorimetric detection was completed with diaminobenzidine for 5 minutes. Slides were

counterstained with Haematoxylin and coverslipped under DePeX. Please note that for manual staining we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be required.

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