abcam

Product datasheet

Anti-STYX antibody [EPR16314] ab205200

Recombinant RabMAb

1 References 10 Images

Overview

Product name	Anti-STYX antibody [EPR16314]
Description	Rabbit monoclonal [EPR16314] to STYX
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, ICC/IF, IP
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Jurkat, HepG2, C6, RAW 264.7 and NIH/3T3 whole cell lysates; Human fetal liver and lymph node lysates; Mouse and rat spleen lysates. ICC/IF: HepG2 and Jurkat cells. Flow Cyt (intra): Jurkat cells. IP: NIH/3T3 whole cell lysate.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR16314

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab205200 in the following tested applications.

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

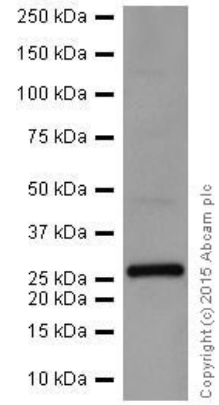
Application	Abreviews	Notes
Flow Cyt (Intra)		1/150.
WB		1/1000. Detects a band of approximately 25 kDa (predicted molecular weight: 25 kDa).
ICC/IF		1/100.
IP		1/50.

Target

Function Probable pseudophosphatase. Contains a Gly residue instead of a conserved Cys residue in the dsPTPase catalytic loop which renders it catalytically inactive as a phosphatase. The binding pocket is however sufficiently preserved to bind phosphorylated substrates, and maybe protect them from phosphatases. Seems to play a role in spermiogenesis.

Sequence similarities Belongs to the protein-tyrosine phosphatase family. Non-receptor class subfamily.
Contains 1 tyrosine-protein phosphatase domain.

Images



Western blot - Anti-STYX antibody [EPR16314] (ab205200)

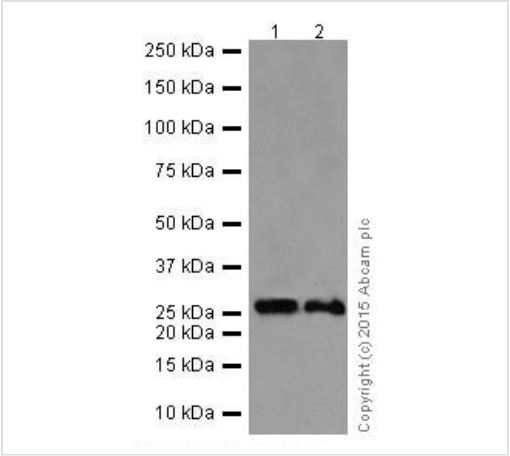
Anti-STYX antibody [EPR16314] (ab205200) at 1/5000 dilution + Jurkat (Human T cell leukemia cells from peripheral blood) whole cell lysate at 20 µg

Secondary
Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution

Predicted band size: 25 kDa
Observed band size: 25 kDa

Exposure time: 1 minute

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-STYX antibody [EPR16314] (ab205200)

All lanes : Anti-STYX antibody [EPR16314] (ab205200) at 1/1000 dilution

Lane 1 : HepG2 (Human liver hepatocellular carcinoma) whole cell lysate
Lane 2 : Human fetal liver lysate

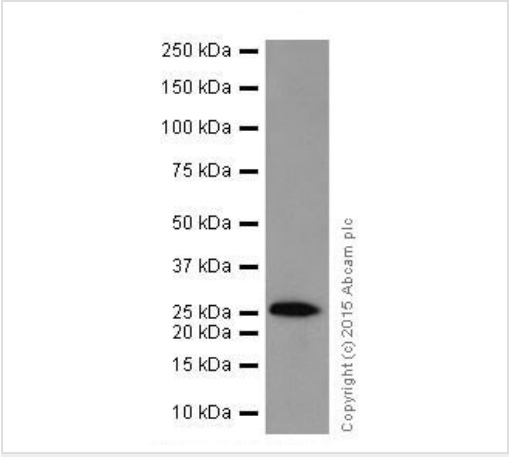
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution

Predicted band size: 25 kDa
Observed band size: 25 kDa

Exposure time: 1 minute

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-STYX antibody [EPR16314] (ab205200)

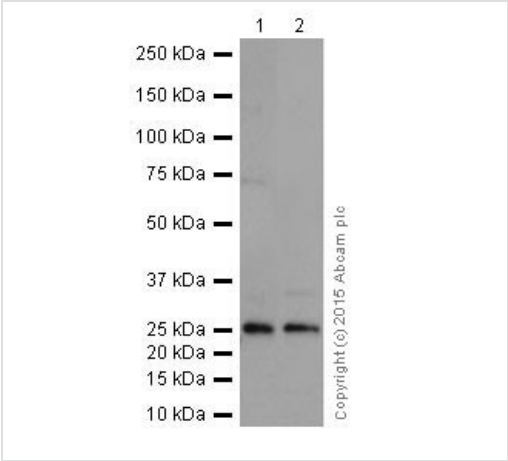
Anti-STYX antibody [EPR16314] (ab205200) at 1/1000 dilution + Human lymph node lysate at 20 µg

Secondary
Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution

Predicted band size: 25 kDa
Observed band size: 25 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-STYX antibody [EPR16314] (ab205200)

All lanes : Anti-STYX antibody [EPR16314] (ab205200) at 1/1000 dilution

Lane 1 : Mouse spleen lysate
Lane 2 : Rat spleen lysate

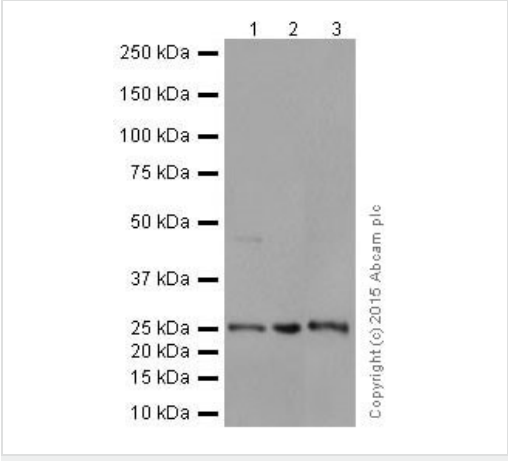
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution

Predicted band size: 25 kDa
Observed band size: 25 kDa

Exposure time: 1 minute

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-STYX antibody [EPR16314] (ab205200)

All lanes : Anti-STYX antibody [EPR16314] (ab205200) at 1/1000 dilution

Lane 1 : C6 (Rat glial tumor cells) whole cell lysate
Lane 2 : RAW 264.7 (Mouse macrophage cells transformed with Abelson murine leukemia virus) whole cell lysate
Lane 3 : NIH/3T3 (Mouse embyro fibroblast cells) whole cell lysate

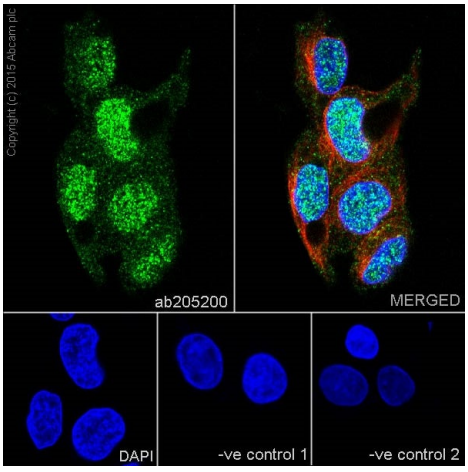
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution

Predicted band size: 25 kDa
Observed band size: 25 kDa

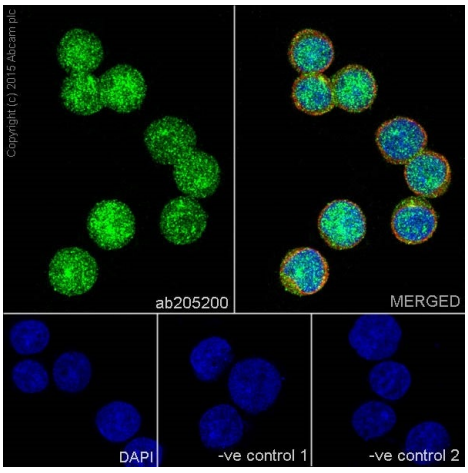
Exposure time: 10 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.



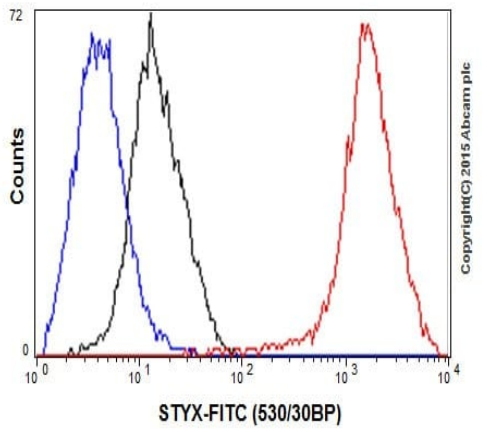
Immunocytochemistry/ Immunofluorescence - Anti-STYX antibody [EPR16314] (ab205200)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HepG2 (Human liver hepatocellular carcinoma) cells labeling STYX with ab205200 at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing nuclear and weakly cytoplasmic staining on HepG2 cell line. The nuclear counter stain is DAPI (blue). Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution and **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution (red).
The negative controls are as follows:
-ve control 1: ab205200 at 1/100 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.
-ve control 2: **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution.



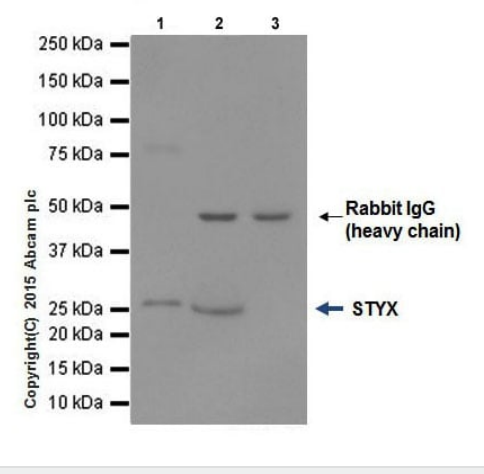
Immunocytochemistry/ Immunofluorescence - Anti-STYX antibody [EPR16314] (ab205200)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Jurkat (Human T cell leukemia cells from peripheral blood) cells labeling STYX with ab205200 at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing nuclear and weakly cytoplasmic staining on Jurkat cell line. The nuclear counter stain is DAPI (blue). Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution and **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution (red).
The negative controls are as follows:
-ve control 1: ab205200 at 1/100 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.
-ve control 2: **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-STYX antibody [EPR16314] (ab205200)

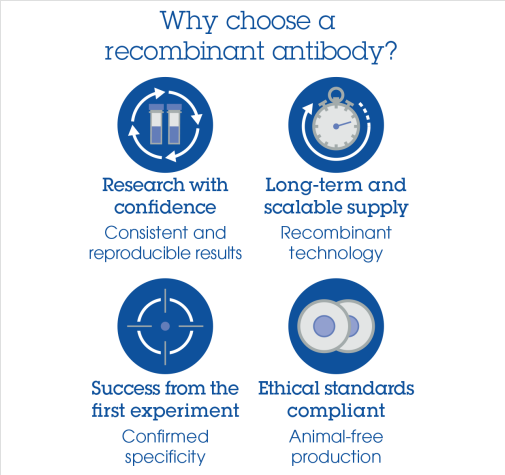
Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed Jurkat (Human T cell leukemia cells from peripheral blood) cells labeling STYX with ab205200 at 1/150 dilution (red) compared with a rabbit monoclonal IgG isotype control (**ab172730**; black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (FITC) at 1/500 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-STYX antibody [EPR16314] (ab205200)

STYX was immunoprecipitated from 1mg of NIH/3T3 (Mouse embryo fibroblast cells) whole cell lysate with ab205200 at 1/50 dilution. Western blot was performed from the immunoprecipitate using ab205200 at 1/1000 dilution. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500 dilution.

Lane 1: NIH/3T3 whole cell lysate 10ug (Input). Lane 2: ab205200 IP in NIH/3T3 whole cell lysate. Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab205200 in NIH/3T3 whole cell lysate. Blocking and dilution buffer and concentration: 5% NFDM/TBST. Exposure time: 30 seconds.



Anti-STYX antibody [EPR16314] (ab205200)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors