abcam

Product datasheet

Anti-CYFIP2 + CYFIP1 antibody [EPR17848-87] - BSA and Azide free ab251411

Recombinant RabMAb

9 Images

Overview

Product name	Anti-CYFIP2 + CYFIP1 antibody [EPR17848-87] - BSA and Azide free
Description	Rabbit monoclonal [EPR17848-87] to CYFIP2 + CYFIP1 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, IHC-P, ICC/IF
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
General notes	ab251411 is the carrier-free version of **ab204129**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR17848-87
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab251411 in the following tested applications.

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

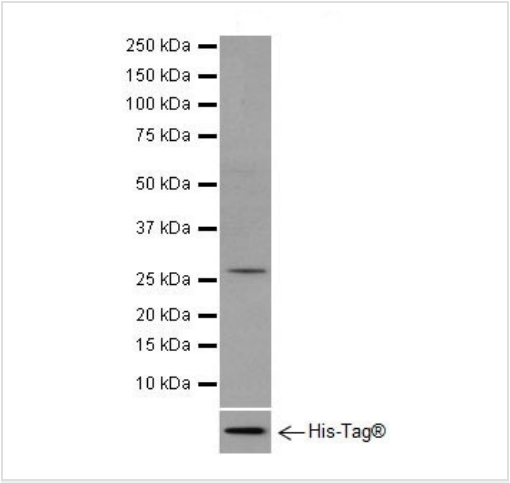
Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 148 kDa (predicted molecular weight: 148 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.

Target

Relevance Component of the CYFIP1-EIF4E-FMR1 complex which binds to the mRNA cap and mediates translational repression. In the CYFIP1-EIF4E-FMR1 complex this subunit is an adapter between EIF4E and FMR1. Promotes the translation repression activity of FMR1 in brain probably by mediating its association with EIF4E and mRNA (By similarity). Regulates formation of membrane ruffles and lamellipodia. Plays a role in axon outgrowth. Binds to F-actin but not to RNA. Part of the WAVE complex that regulates actin filament reorganization via its interaction with the Arp2/3 complex. Actin remodeling activity is regulated by RAC1. Regulator of epithelial morphogenesis. May act as an invasion suppressor in cancers. Involved in T-cell adhesion and p53/TP53-dependent induction of apoptosis. Does not bind RNA.

Cellular localization Cytoplasmic

Images



Western blot - Anti-CYFIP2 + CYFIP1 antibody [EPR17848-87] - BSA and Azide free (ab251411)

Anti-CYFIP2 + CYFIP1 antibody [EPR17848-87] (**ab204129**) at 1/50000 dilution + Human CYFIP1 Recombinant protein fragment at 0.01 µg

Secondary

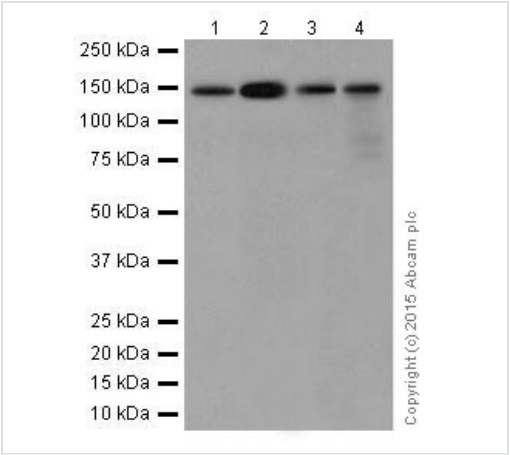
Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution

Predicted band size: 148 kDa
Observed band size: 148 kDa

Exposure time: 10 seconds

This data was developed using **ab204129**, the same antibody clone in a different buffer formulation.

Blocking and dilution buffer: 5% NFDM/TBST.



Western blot - Anti-CYFIP2 + CYFIP1 antibody [EPR17848-87] - BSA and Azide free (ab251411)

All lanes : Anti-CYFIP2 + CYFIP1 antibody [EPR17848-87] (**ab204129**) at 1/5000 dilution

Lane 1 : Jurkat (Human T cell leukemia cells from peripheral blood) whole cell lysate at 20 µg
Lane 2 : Molt4 (Human lymphoblastic leukemia cell line) whole cell lysate at 20 µg
Lane 3 : Human fetal kidney lysate at 10 µg
Lane 4 : Human fetal brain lysate at 10 µg

Secondary

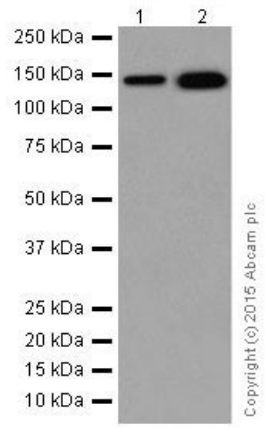
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution

Predicted band size: 148 kDa
Observed band size: 148 kDa

Exposure time: 1 second

This data was developed using **ab204129**, the same antibody clone in a different buffer formulation.

Blocking and dilution buffer: 5% NFDM/TBST.



Western blot - Anti-CYFIP2 + CYFIP1 antibody [EPR17848-87] - BSA and Azide free (ab251411)

All lanes : Anti-CYFIP2 + CYFIP1 antibody [EPR17848-87] (**ab204129**) at 1/5000 dilution

Lane 1 : HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate
Lane 2 : SW480 (Human colon adenocarcinoma cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

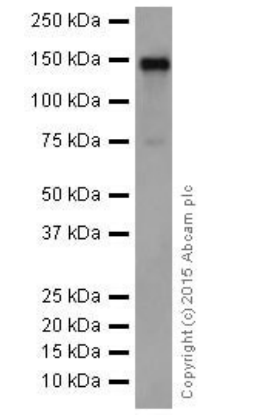
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution

Predicted band size: 148 kDa
Observed band size: 148 kDa

Exposure time: 15 seconds

This data was developed using **ab204129**, the same antibody clone in a different buffer formulation.

Blocking and dilution buffer: 5% NFDM/TBST.



Western blot - Anti-CYFIP2 + CYFIP1 antibody [EPR17848-87] - BSA and Azide free (ab251411)

Anti-CYFIP2 + CYFIP1 antibody [EPR17848-87] (**ab204129**) at 1/1000 dilution + RAW 264.7 (Mouse macrophage cells transformed with Abelson murine leukemia virus) whole cell lysate at 10 µg

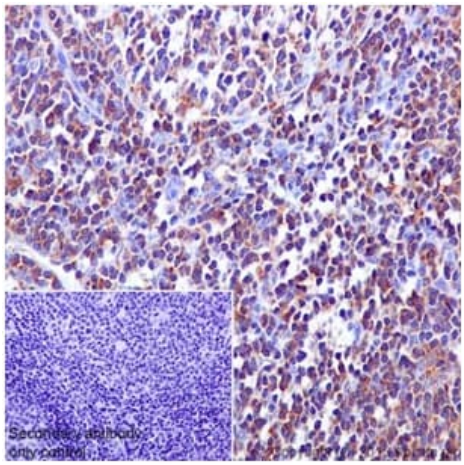
Secondary
Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution

Predicted band size: 148 kDa
Observed band size: 146 kDa

Exposure time: 1 second

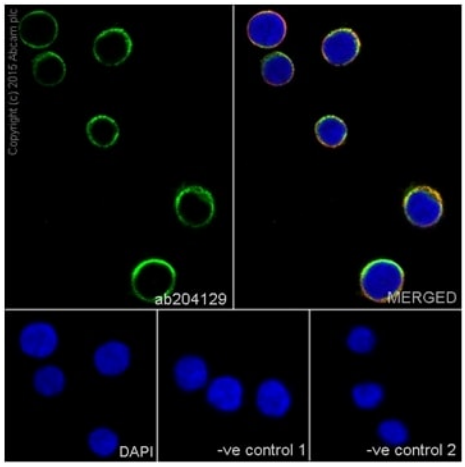
This data was developed using **ab204129**, the same antibody clone in a different buffer formulation.

Blocking and dilution buffer: 5% NFDM/TBST.



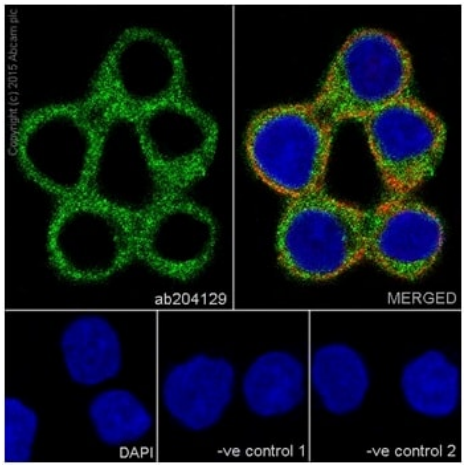
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CYFIP2 + CYFIP1 antibody [EPR17848-87] - BSA and Azide free (ab251411)

This data was developed using **ab204129**, the same antibody clone in a different buffer formulation.Immunohistochemical analysis of paraffin-embedded Human tonsil labeling CYFIP2 + CYFIP1 with **ab204129** at 1/300 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) secondary antibody at 1/500 dilution.
Cytoplasmic staining on human tonsil tissue is observed. Counter stained with Hematoxylin. Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



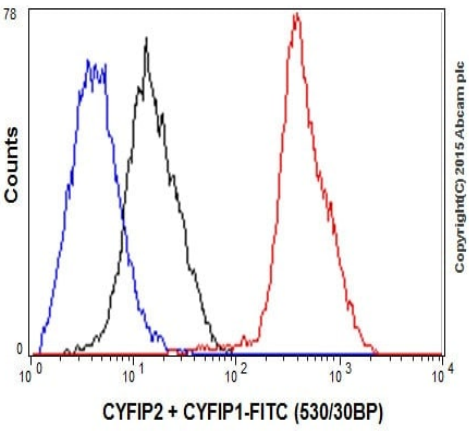
Immunocytochemistry/ Immunofluorescence - Anti-CYFIP2 + CYFIP1 antibody [EPR17848-87] - BSA and Azide free (ab251411)

This data was developed using **ab204129**, the same antibody clone in a different buffer formulation.Immunofluorescent analysis of 100% Methanol, 0.1% Triton X-100 permeabilized Jurkat (Human T cell leukemia cells from peripheral blood) cells labeling CYFIP2 + CYFIP1 with **ab204129** at 1/150 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on JurKat cell line is observed. 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:
1. **ab204129** at 1/150 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.
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-CYFIP2 + CYFIP1 antibody [EPR17848-87] - BSA and Azide free (ab251411)

This data was developed using **ab204129**, the same antibody clone in a different buffer formulation.Immunofluorescent analysis of 100% Methanol, 0.1% Triton X-100 permeabilized SW480 (Human colon adenocarcinoma cell line) cells labeling CYFIP2 + CYFIP1 with **ab204129** at 1/150 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on SW480 cell line is observed. 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:
1. **ab204129** at 1/150 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.
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-CYFIP2 + CYFIP1 antibody [EPR17848-87] - BSA and Azide free (ab251411)

This data was developed using **ab204129**, the same antibody clone in a different buffer formulation.

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed Jurkat (Human T cell leukemia cells from peripheral blood) cells labeling CYFIP2 + CYFIP1 with **ab204129** at 1/150 dilution (red) compared with a rabbit monoclonal IgG isotype control (black) and a 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.

Anti-CYFIP2 + CYFIP1 antibody [EPR17848-87] - BSA and Azide free (ab251411)

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