abcam

ab75815

Anti-Prealbumin antibody [EP2929Y]

Anti-Prealbumin antibody [EP2929Y] (ab75815) is a rabbit monoclonal antibody detecting Prealbumin in **Western Blot, Flow Cytometry (Intra), IP, IHC-P**. Suitable for **Human**.

- Biophysical QC for unrivalled batch-batch consistency
- Trusted since 2009

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EP2929Y
Purification technique	Affinity purification Protein A
Concentration	0.13 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human

Dilution info	1/250 - 1/500
Notes	Perform heat-mediated antigen retrieval before commencing with IHC staining protocol.

Not recommended

Species	Mouse
Dilution info	-
Notes	Perform heat-mediated antigen retrieval before commencing with IHC staining protocol.

IP

Tested

Species	Human
Dilution info	1/50
Notes	-

Not recommended

Species	Mouse
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/2500 - 1/5000
Notes	-

Not recommended

Species	Mouse
Dilution info	-

Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/50
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Not recommended

Species	Mouse
Dilution info	-
Notes	-

Target data

See full target information TTR

Function	Thyroid hormone-binding protein. Probably transports thyroxine from the bloodstream to the brain.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Storage information	Stable for 12 months at -20°C

Notes

What is this antibody validated in?
Anti-Prealbumin antibody [EP2929Y] (ab75815) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Immunoprecipitation (IP), Immunohistochemistry (IHC-P) in Human

samples.

What is the molecular weight of Prealbumin?
Anti-Prealbumin [EP2929Y] (ab75815) specifically detects a band for Prealbumin (UniProt: P02766) at a molecular weight of 16kDa.

Reviewed by scientists
Anti-Prealbumin [EP2929Y] (ab75815) has over 5 independent reviews from customers.

Other related products
We have a range of other formats of antibody clone [EP2929Y] also available for your convenience: ab75815, Carrier free - ab185127, Alexa Fluor® 488 - ab199074, PE - ab305865, APC - ab305866, HRP - ab305867, Alkaline Phosphatase - ab308868, Alexa Fluor® 647 - ab310162, Alexa Fluor® 594 - ab310595, Alexa Fluor® 555 - ab312125, Alexa Fluor® 568 - ab312609, Alexa Fluor® 750 - ab321698

Species reactivity
Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
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 batch production

For more information, read more on recombinant antibodies.

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Prealbumin also known as transthyretin is a protein with a molecular mass of approximately 55 kDa. The liver primarily synthesizes prealbumin and it is present in the bloodstream. Functionally prealbumin transports thyroxine and retinol-binding protein-retinol complex facilitating the distribution of these molecules to target tissues. As such it plays an integral role in maintaining retinol and thyroid hormone homeostasis.
Biological function summary	Prealbumin interacts with retinol-binding protein to form a complex essential for vitamin A transportation. This complex prevents renal filtration of retinol-binding protein thereby conserving vitamin A in circulation. The protein's role extends beyond transport as it influences neurophysiological processes due to its ability to

	bind thyroid hormones and affect gene expression related to metabolism. Prealbumin is primarily a part of the thyroxine-transferring complex reinforcing its critical position in hormonal and vitamin dynamics.
Pathways	Prealbumin's role in the thyroxine-binding globulin pathway highlights its importance in the endocrine system. Another pathway where prealbumin contributes significantly is the vitamin A metabolic pathway. In these pathways prealbumin maintains functional relationships with proteins like retinol-binding protein and thyroxine-binding globulin which jointly modulate thyroid hormone transport and vitamin A dynamics across cellular membranes.
Associated diseases and disorders	Prealbumin directly associates with familial amyloid polyneuropathy and malnutrition. Familial amyloid polyneuropathy involves the deposition of prealbumin-derived amyloid fibrils in peripheral nerves impacting neuron function. In malnutrition decreased prealbumin levels serve as a biomarker reflecting poor nutritional status. Clinically prealbumin's relation to retinol-binding protein and thyroid hormone levels facilitates its use in diagnosing and monitoring these conditions.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

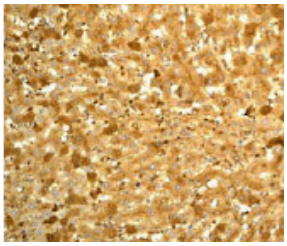
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

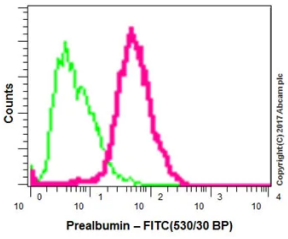
4 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Prealbumin antibody [EP2929Y] (ab75815)

Prealbumin Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Prealbumin antibody

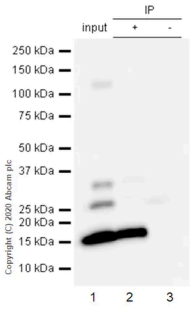
ab75815 at 1/250 dilution staining Prealbumin in human liver by Immunohistochemistry, Paraffin-embedded tissue.
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-Prealbumin antibody [EP2929Y] (ab75815)

Prealbumin Flow Cytometry (Intracellular) staining using rabbit Anti-Prealbumin antibody

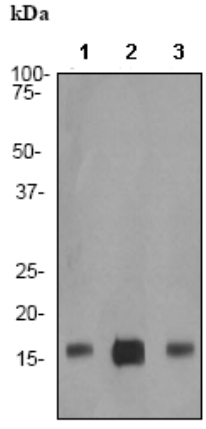
Intracellular Flow Cytometry analysis of HepG2 cells labelling Prealbumin with ab75815 at a dilution of 1/50 (red). Cells were fixed with 2% paraformaldehyde. A FITC-conjugated goat anti-rabbit IgG (1/150) was used as the secondary antibody. Green - Isotype control, rabbit monoclonal IgG.



Immunoprecipitation - Anti-Prealbumin antibody [EP2929Y] (ab75815)

Purified ab75815 at 1/50 dilution (2µg) immunoprecipitating Prealbumin in Human heart lysate.
Lane 1 (input): Human heart lysate 10µg
Lane 2 (+): ab75815 + Human heart lysate.
Lane 3 (-): Rabbit monoclonal IgG (ab172730) instead of ab75815 in Human heart lysate.
VeriBlot for IP Detection Reagent (HRP) (ab131366) (1/1000 dilution) was used for Western blotting.
Blocking Buffer and concentration: 5% NFDM/TBST.
Diluting buffer and concentration: 5% NFDM/TBST.
Observed band size: 16 kDa
All lanes:
Immunoprecipitation - Anti-Prealbumin antibody [EP2929Y] (ab75815)

Predicted band size: 15 kDa



Western blot - Anti-Prealbumin antibody [EP2929Y] (ab75815)

Prealbumin Western blot staining using rabbit Anti-Prealbumin antibody

All lanes:
Western blot - Anti-Prealbumin antibody [EP2929Y] (ab75815) at 1/5000 dilution

Lane 1:
human heart lysate at 10 µg

Lane 2:
human placenta lysate at 10 µg

Lane 3:
human brain lysate at 10 µg

Secondary

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

Predicted band size: 15 kDa

Observed band size: 16 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.