abcam

Product datasheet

Anti-Prealbumin antibody [EP2929Y] ab75815

Recombinant RabMAb

★★★★★ 5 Abreviews 3 References 5 Images

Overview

Product name	Anti-Prealbumin antibody [EP2929Y]
Description	Rabbit monoclonal [EP2929Y] to Prealbumin
Host species	Rabbit
Tested applications	**Suitable for:** IP, Flow Cyt (Intra), WB, IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human heart, placenta and brain lysates; human liver tissue. IP: Human heart 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**. Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP2929Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab75815 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
IP		1/50.
Flow Cyt (Intra)		1/50. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (2)	1/2500 - 1/5000. Detects a band of approximately 16 kDa (predicted molecular weight: 16 kDa).
IHC-P	★★★★★ (2)	1/250 - 1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Target

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

Tissue specificity Detected in serum and cerebrospinal fluid (at protein level). Highly expressed in choroid plexus epithelial cells. Detected in retina pigment epithelium and liver.

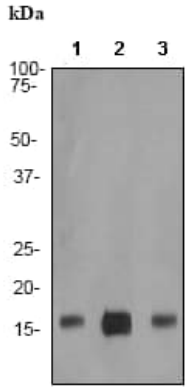
Involvement in disease Defects in TTR are the cause of amyloidosis transthyretin-related (AMYL-TTR) [MIM:105210]. A hereditary generalized amyloidosis due to transthyretin amyloid deposition. Protein fibrils can form in different tissues leading to amyloid polyneuropathies, amyloidotic cardiomyopathy, carpal tunnel syndrome, systemic senile amyloidosis. The disease includes leptomeningeal amyloidosis that is characterized by primary involvement of the central nervous system. Neuropathologic examination shows amyloid in the walls of leptomeningeal vessels, in pia arachnoid, and subpial deposits. Some patients also develop vitreous amyloid deposition that leads to visual impairment (oculoleptomeningeal amyloidosis). Clinical features include seizures, stroke-like episodes, dementia, psychomotor deterioration, variable amyloid deposition in the vitreous humor.
Defects in TTR are a cause of hyperthyroxinemia dystransthyretinemic euthyroidal (HTDE) [MIM:145680]. It is a condition characterized by elevation of total and free thyroxine in healthy, euthyroid persons without detectable binding protein abnormalities.
Defects in TTR are a cause of carpal tunnel syndrome type 1 (CTS1) [MIM:115430]. It is a condition characterized by entrapment of the median nerve within the carpal tunnel. Symptoms include burning pain and paresthesias involving the ventral surface of the hand and fingers which may radiate proximally. Impairment of sensation in the distribution of the median nerve and thenar muscle atrophy may occur. This condition may be associated with repetitive occupational trauma, wrist injuries, amyloid neuropathies, rheumatoid arthritis.

Sequence similarities Belongs to the transthyretin family.

Domain Each monomer has two 4-stranded beta sheets and the shape of a prolate ellipsoid. Antiparallel beta-sheet interactions link monomers into dimers. A short loop from each monomer forms the main dimer-dimer interaction. These two pairs of loops separate the opposed, convex beta-sheets of the dimers to form an internal channel.

Cellular localization Secreted. Cytoplasm.

Images



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

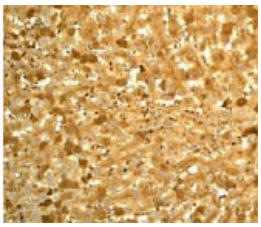
All lanes : Anti-Prealbumin antibody [EP2929Y] (ab75815) at 1/5000 dilution

Lane 1 : human heart lysate
Lane 2 : human placenta lysate
Lane 3 : human brain lysate

Lysates/proteins at 10 µg per lane.

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

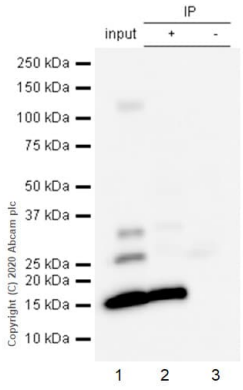
Predicted band size: 16 kDa
Observed band size: 16 kDa



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

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.



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.

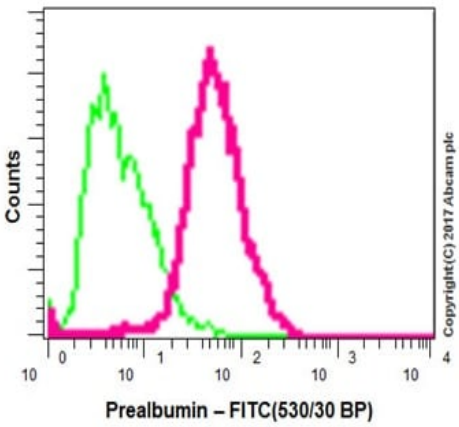
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab75815 in Human heart lysate.

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



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

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.

Anti-Prealbumin antibody [EP2929Y] (ab75815)

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