

Product datasheet

Anti-AACT antibody [EPR14117(B)] ab180492

Recombinant RabMAb

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Overview

Product name	Anti-AACT antibody [EPR14117(B)]
Description	Rabbit monoclonal [EPR14117(B)] to AACT
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human plasma and colon cancer lysates; Human liver and placenta tissues.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR14117(B)
Isotype	IgG

Applications

Applications

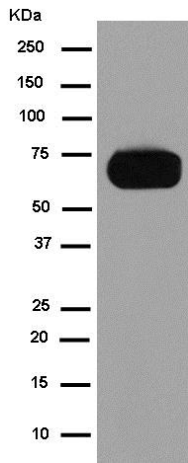
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab180492 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/500 - 1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/1000 - 1/10000. Detects a band of approximately 70 kDa (predicted molecular weight: 47 kDa).
IP		1/70.

Target

Function	Although its physiological function is unclear, it can inhibit neutrophil cathepsin G and mast cell chymase, both of which can convert angiotensin-1 to the active angiotensin-2.
Tissue specificity	Plasma. Synthesized in the liver. Like the related alpha-1-antitrypsin, its concentration increases in the acute phase of inflammation or infection. Found in the amyloid plaques from the hippocampus of Alzheimer disease brains.
Involvement in disease	Defects in SERPINA3 may be a cause of chronic obstructive pulmonary disease (COPD) [MIM:107280].
Sequence similarities	Belongs to the serpin family.
Domain	The reactive center loop (RCL) extends out from the body of the protein and directs binding to the target protease. The protease cleaves the serpin at the reactive site within the RCL, establishing a covalent linkage between the carboxyl group of the serpin reactive site and the serine hydroxyl of the protease. The resulting inactive serpin-protease complex is highly stable.
Cellular localization	Secreted.

Images



Western blot - Anti-AACT antibody [EPR14117(B)]
(ab180492)

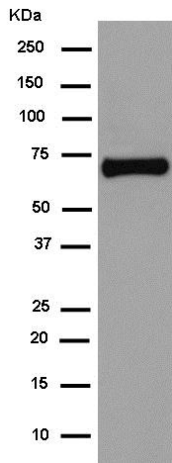
Anti-AACT antibody [EPR14117(B)] (ab180492) at 1/10000 dilution + Human plasma lysate at 20 µg

Secondary

Rabbit TrueBlot®:Anti-Rabbit IgG HRP at 1/1000 dilution

Predicted band size: 47 kDa

Observed band size: 70 kDa



Western blot - Anti-AACT antibody [EPR14117(B)]
(ab180492)

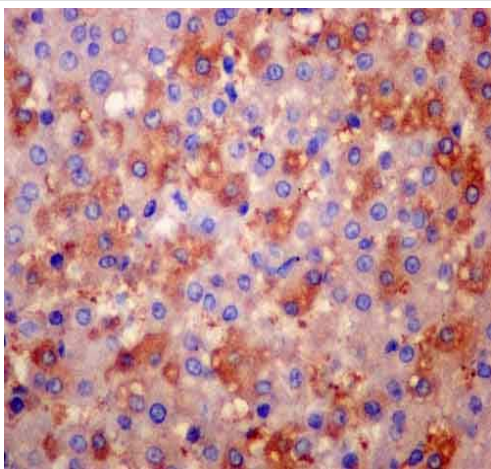
Anti-AACT antibody [EPR14117(B)] (ab180492) at 1/2000 dilution + Human colon cancer tissue lysate at 20 µg

Secondary

Rabbit TrueBlot®:Anti-Rabbit IgG HRP at 1/1000 dilution

Predicted band size: 47 kDa

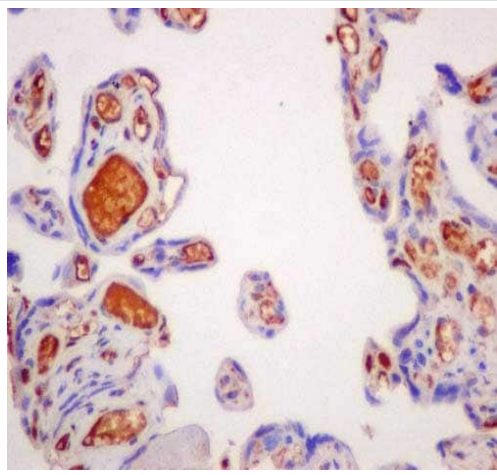
Observed band size: 70 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AACT antibody [EPR14117(B)] (ab180492)

Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling AACT with ab180492 at 1/500 dilution, followed by prediluted ImmunoHistoprobe (Ready to use) HRP Polymer for Rabbit IgG. Counter stained with Hematoxylin.

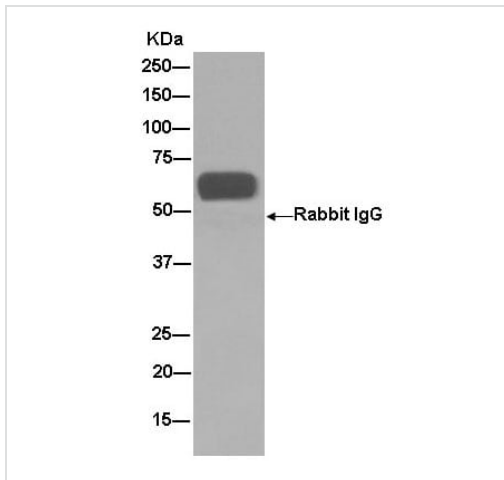
Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AACT antibody [EPR14117(B)] (ab180492)

Immunohistochemical analysis of paraffin-embedded Human placenta tissue labeling AACT with ab180492 at 1/500 dilution, followed by prediluted ImmunoHistoprobe (Ready to use) HRP Polymer for Rabbit IgG. Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-AACT antibody [EPR14117(B)] (ab180492)

Western blot analysis of Human plasma immunoprecipitated using ab180492 at 1/70 dilution. Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate was used as secondary antibody, at 1/1000 dilution.

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-AACT antibody [EPR14117(B)] (ab180492)

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