

Product datasheet

Anti-AIP antibody [EPR13585] ab192024

KO VALIDATED Recombinant RabMAb

[1 References](#) [4 Images](#)

Overview

Product name	Anti-AIP antibody [EPR13585]
Description	Rabbit monoclonal [EPR13585] to AIP
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, Jurkat, HepG2, C6, Raw264.7 and NIH/3T3 cell lysates; Human thymus, Mouse brain, Mouse heart, Mouse kidney, Mouse spleen, Rat heart and Rat kidney lysates.
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	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR13585
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab192024 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
WB		1/1000 - 1/10000. Detects a band of approximately 38 kDa (predicted molecular weight: 38 kDa).

Target

Function

May play a positive role in AHR-mediated (aromatic hydrocarbon receptor) signaling, possibly by influencing its receptivity for ligand and/or its nuclear targeting.

Cellular negative regulator of the hepatitis B virus (HBV) X protein.

Tissue specificity

Widely expressed. Higher levels seen in the heart, placenta and skeletal muscle. Not expressed in the liver.

Involvement in disease

Defects in AIP are a cause of familial isolated pituitary adenoma (FIPA) [MIM:102200].

Defects in AIP are a cause of growth hormone-secreting pituitary adenoma (GHSPA)

[MIM:102200]; also known as familial isolated somatotropinomas (FIS) or isolated familial somatotropinoma (IFS) or familial somatotrophinoma or acromegaly due to pituitary adenoma.

Defects in AIP are a cause of ACTH-secreting pituitary adenoma (ASPA) [MIM:219090]; also known as pituitary Cushing disease. A pituitary adenoma resulting in excessive production of adrenocorticotrophic hormone. This leads to hypersecretion of cortisol by the adrenal glands and ACTH-dependent Cushing syndrome. Clinical manifestations of Cushing syndrome include facial and trunkal obesity, abdominal striae, muscular weakness, osteoporosis, arterial hypertension, diabetes.

Defects in AIP are a cause of prolactin-secreting pituitary adenoma (PSPA) [MIM:600634]; also known as prolactinoma. Prolactin-secreting pituitary adenoma is the most common type of hormonally active pituitary adenoma.

Sequence similarities

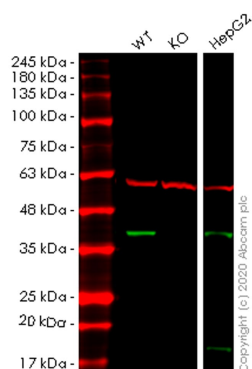
Contains 1 PPlase FKBP-type domain.

Contains 2 TPR repeats.

Cellular localization

Cytoplasm.

Images



Western blot - Anti-AIP antibody [EPR13585]
(ab192024)

All lanes : Anti-AIP antibody [EPR13585] (ab192024) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : AIP knockout HeLa cell lysate

Lane 3 : HepG2 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

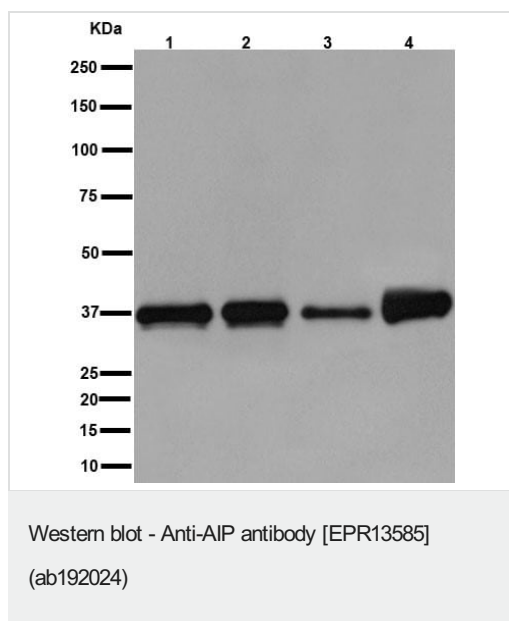
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) at 1/10000 dilution

Predicted band size: 38 kDa

Observed band size: 38 kDa

Lanes 1-3: Merged signal (red and green). Green - ab192024 observed at 38 kDa. Red - loading control [ab7291](#) observed at 50 kDa.

ab192024 Anti-AIP antibody [EPR13585] was shown to specifically react with AIP in wild-type HeLa cells. Loss of signal was observed when knockout cell line [ab265502](#) (knockout cell lysate [ab257822](#)) was used. Wild-type and AIP knockout samples were subjected to SDS-PAGE. ab192024 and Anti-alpha Tubulin antibody [DM1A] - Loading Control ([ab7291](#)) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



All lanes : Anti-AIP antibody [EPR13585] (ab192024) at 1/10000 dilution

Lane 1 : HeLa cell lysate

Lane 2 : Jurkat cell lysate

Lane 3 : HepG2 cell lysate

Lane 4 : Human thymus cell lysate

Lysates/proteins at 20 µg per lane.

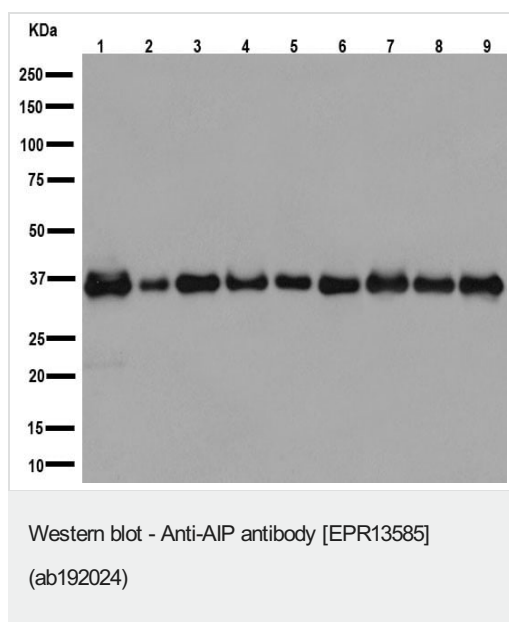
Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 38 kDa

Observed band size: 38 kDa

Blocking/dilution buffer: 5% NFDM/TBST.



All lanes : Anti-AIP antibody [EPR13585] (ab192024) at 1/1000 dilution

Lane 1 : Mouse brain lysate

Lane 2 : Mouse heart lysate

Lane 3 : Mouse kidney lysate

Lane 4 : Mouse spleen lysate

Lane 5 : Rat heart lysate

Lane 6 : Rat kidney lysate

Lane 7 : C6 cell lysate

Lane 8 : Raw 264.7 cell lysate

Lane 9 : NIH/3T3 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary





All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 38 kDa

Observed band size: 38 kDa

Blocking/dilution buffer: 5% NFDM /TBST.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-AIP antibody [EPR13585] (ab192024)

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

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