

Product datasheet

Anti-ACTH antibody [AH26] ab233953

Recombinant

4 Images

Overview

Product name	Anti-ACTH antibody [AH26]
Description	Mouse monoclonal [AH26] to ACTH
Host species	Mouse
Specificity	ACTH (same as Corticotropin) is a 39 amino acid active peptide produced by the anterior pituitary. This antibody is specific to Synacthen (aa 1-24 of ACTH); does not react with CLIP (aa 17-39 of ACTH).
Tested applications	Suitable for: IHC-Fr, IHC-P Unsuitable for: WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Human, Mouse and Rat pituitary gland tissue. IHC-Fr: Mouse pituitary gland tissue
General notes	This product has switched from a hybridoma to recombinant production method on 11th March 2022. This product is a recombinant monoclonal antibody, which offers several advantages including: <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 For more information see here .

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	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
Purity	Protein A purified
Clonality	Monoclonal

Clone number	AH26
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab233953 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-Fr		1/100.
IHC-P		1/5000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

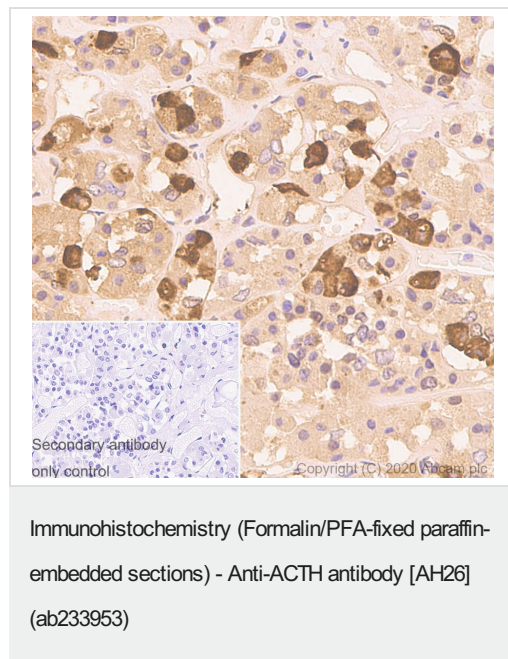
Application notes Is unsuitable for WB.

Target

Relevance ACTH occurs in cells of the anterior pituitary and in neurons in brain. It regulates the corticosteroid production in the adrenal cortex. Beta endorphin and Met enkephalin are endogenous opiates. MSH (melanocyte stimulating hormone) increases the pigmentation of skin by increasing melanin production in melanocytes.

Cellular localization Secreted

Images



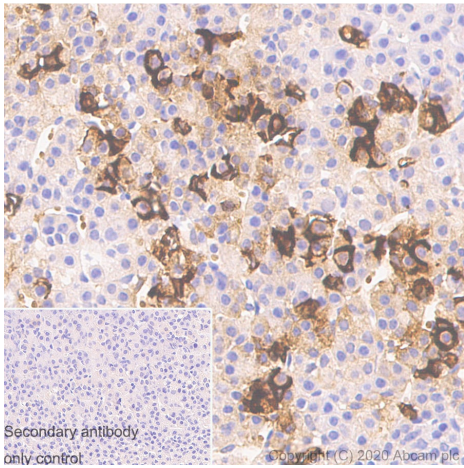
Immunohistochemical analysis of paraffin-embedded Human pituitary gland tissue labeling ACTH with ab233953 at 1/5000 (0.233 µg/ml) dilution, followed by a ready to use Goat Anti-Mouse IgG H&L (HRP polymer) ([ab214879](#)).

Positive staining on human pituitary gland. The section was incubated with ab233953 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Mouse IgG H&L (HRP polymer) ([ab214879](#))

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ACTH antibody [AH26] (ab233953)

Immunohistochemical analysis of paraffin-embedded Mouse pituitary gland tissue labeling ACTH with ab233953 at 1/10000 (0.116 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

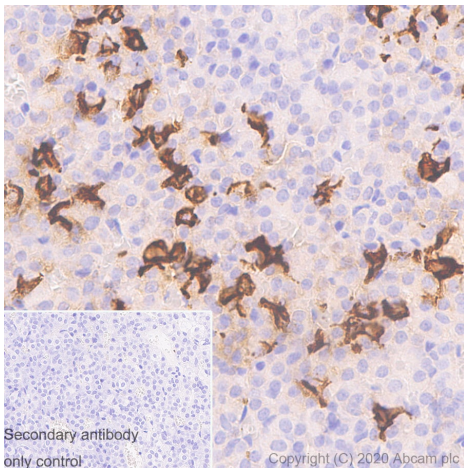
Positive staining on mouse pituitary gland. The section was incubated with ab233953 for 30 mins at room temperature and then combined with specific mouse IgG antibody (**ab125913**, 1:1000) for 8mins.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection)

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ACTH antibody [AH26] (ab233953)

Immunohistochemical analysis of paraffin-embedded Rat pituitary gland tissue labeling ACTH with ab233953 at 1/10000 (0.116 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

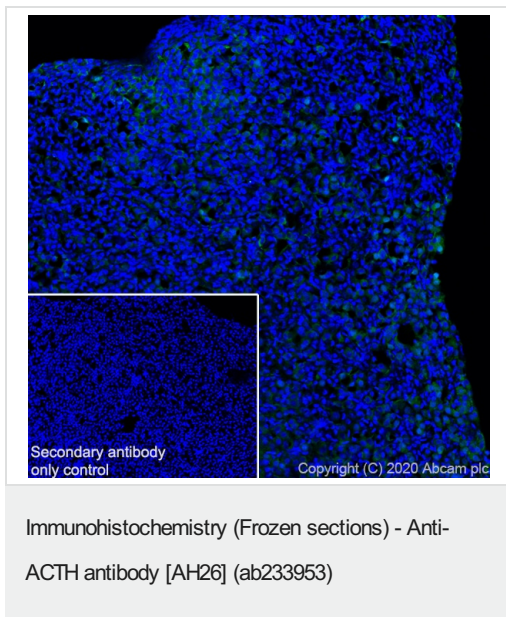
Positive staining on rat pituitary gland. The section was incubated with ab233953 for 30 mins at room temperature and then combined with specific mouse IgG antibody (**ab125913**, 1:1000) for 8mins.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection)

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins



Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Mouse pituitary (fresh frozen) tissue labeling ACTH with ab233953 at 1/100 (11.64 µg/ml) dilution followed by **ab150113**, Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) at 1/1000 dilution (Green).

Positive staining on mouse pituitary. The nuclear counterstain was DAPI (Blue).

Secondary antibody control: Secondary antibody is **ab150113** Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20)

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