Datasheet for ABIN3043901

anti-POMC antibody (Middle Region)

3 Images | 2 Publications

Go to Product page

Overview

Quantity:	100 µg
Target:	POMC
Binding Specificity:	AA 138-176, Middle Region
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Pro-opiomelanocortin(POMC) detection. Tested with IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human ACTH(138-176aa SYSMEHFRWGKPVGKKRRPVKVYPNGAEDESAEAFPLEF), different from the related mouse and rat sequences by two amino acids.
Sequence:	SYSMEHFRWG KPVGKKRRPV KVYPNGAEDE SAEAFPLEF
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: human No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.
Characteristics:	Rabbit IgG polyclonal antibody for Pro-opiomelanocortin(POMC) detection. Tested with IHC-P in

Product Details

	Human,Mouse,Rat. Gene Name: proopiomelanocortin Protein Name: Pro-opiomelanocortin
Purification:	Immunogen affinity purified.

Target Details

Target:	POMC
Alternative Name:	POMC (POMC Products)
Background:	Adrenocorticotropic hormone (ACTH), also known as corticotropin, is a polypeptide tropic hormone produced and secreted by the anterior pituitary gland. It is an important component of the hypothalamic-pituitary-adrenal axis and is often produced in response to biological stress (along with its precursor corticotropin-releasing hormone from the hypothalamus). Its principal effects are increased production and release of corticosteroids. ACTH stimulates secretion of glucocorticoid steroid hormones from adrenal cortex cells, especially in the zona fasciculata of the adrenal glands. This gene can influence steroid hormone secretion by both rapid short-term mechanisms that take place within minutes and slower long-term actions. Besides, ACTH also enhances transcription of mitochondrial genes that encode for subunits of mitochondrial oxidative phosphorylation systems. Synonyms: ACTH antibody|Adrenocorticotropic hormone antibody|Adrenocorticotropin antibody|Adrenocorticotropin Hormone antibody|Alpha Melanocyte Stimulating Hormone antibody|alpha-MSH antibody|alphaMSH antibody|Beta Endorphin antibody|Beta Lipotropin antibody|Beta LPH antibody|Beta Melanocyte Stimulating Hormone antibody|Beta-endorphin antibody|beta-MSH antibody|CLIP antibody|Corticotropin antibody|Corticotropin Like Intermediary Peptide antibody|Corticotropin lipotropin antibody|Corticotropin lipotropin precursor antibody|Corticotropin-like intermediary peptide antibody|Gamma LPH antibody|gamma-MSH antibody|Lipotropin Beta antibody|Lipotropin Gamma antibody|Lipotropin, included antibody|LPH antibody|Melanocyte-stimulating hormone, included antibody|Melanotropin Alpha antibody|Melanotropin beta antibody|Melanotropin gamma antibody|Melanotropin, included antibody|Met Enkephalin antibody|Met-enkephalin antibody|MSH antibody|NPP antibody|Opiomelanocortin prepropeptide antibody|POC antibody|POMC antibody|Pomc-1 antibody|Pomc1 antibody|Pomc2 antibody|Pro ACTH endorphin antibody|Pro opiomelanocortin antibody|Pro-opiomelanocortin-alpha antibody|Proopiomelanocortin antibody|Proopiomelanocortin preproprotein

Target Details

	antibody|Tetracosactide antibody
Gene ID:	5443
UniProt:	P01189
Pathways:	Metabolism of Steroid Hormones and Vitamin D, Peptide Hormone Metabolism, Hormone Activity, Feeding Behaviour

Application Details

Application Notes:	IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Rat, Predicted Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

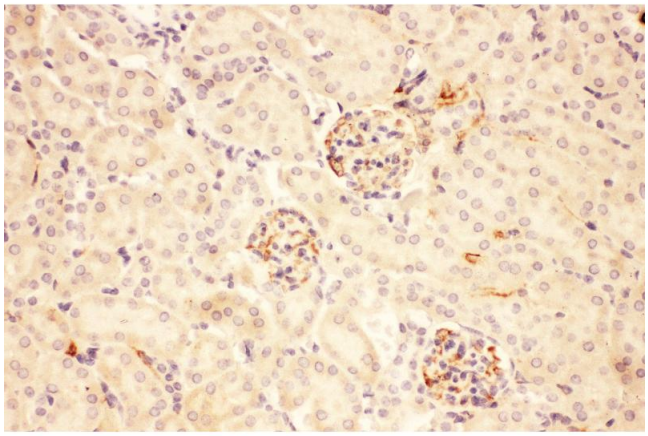
Publications

Product cited in:

Lang, Schulte, Goddard, Hedrick, Schulte, Wei, Schmiedt: "Transplantation of mouse embryonic stem cells into the cochlea of an auditory-neuropathy animal model: effects of timing after injury." in: **Journal of the Association for Research in Otolaryngology : JARO**, Vol. 9, Issue 2, pp. 225-40, (2008) (PubMed).

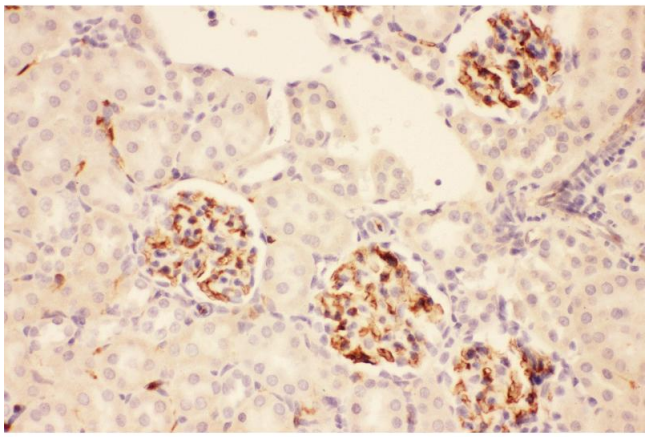
Lang, Ebihara, Schmiedt, Minamiguchi, Zhou, Smythe, Liu, Ogawa, Schulte: "Contribution of bone marrow hematopoietic stem cells to adult mouse inner ear: mesenchymal cells and fibrocytes." in: **The Journal of comparative neurology**, Vol. 496, Issue 2, pp. 187-201, (2006) (PubMed).

Validation report #300029 for Immunohistochemistry (IHC)



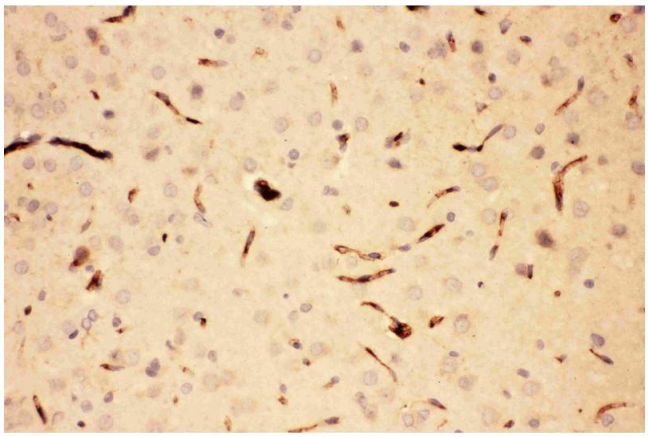
Immunohistochemistry

Image 1. Anti-ACTH Picoband antibody, IHC(P): Mouse Kidney Tissue



Immunohistochemistry

Image 2. Anti-ACTH Picoband antibody, IHC(P): Rat Kidney Tissue



Immunohistochemistry

Image 3. Anti-ACTH Picoband antibody, IHC(P): Rat Brain Tissue