

## Product datasheet for **TA323526S**

### ACTH (POMC) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1000-5000 WB positive control: Human liver cancer tissue IHC: 25-100 Positive control: Human breast cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from 255-267 amino acids of Human proopiomelanocortin
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	29 kDa
Gene Name:	proopiomelanocortin
Database Link:	<a href="#">NP_000930</a> <a href="#">Entrez Gene 18976 Mouse</a> <a href="#">Entrez Gene 5443 Human</a> <a href="#">P01189</a>



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**Background:**

This gene encodes a polypeptide hormone precursor that undergoes extensive; tissue-specific; post-translational processing via cleavage by subtilisin-like enzymes known as prohormone convertases. There are eight potential cleavage sites within the polypeptide precursor and; depending on tissue type and the available convertases; processing may yield as many as ten biologically active peptides involved in diverse cellular functions. The encoded protein is synthesized mainly in corticotroph cells of the anterior pituitary where four cleavage sites are used; adrenocorticotrophin; essential for normal steroidogenesis and the maintenance of normal adrenal weight; and lipotropin beta are the major end products. In other tissues; including the hypothalamus; placenta; and epithelium; all cleavage sites may be used; giving rise to peptides with roles in pain and energy homeostasis; melanocyte stimulation; and immune modulation. These include several distinct melanotropins; lipotropins; and endorphins that are contained within the adrenocorticotrophin and beta-lipotropin peptides. Mutations in this gene have been associated with early onset obesity; adrenal insufficiency; and red hair pigmentation. Alternatively spliced transcript variants encoding the same protein have been described.?

**Synonyms:**

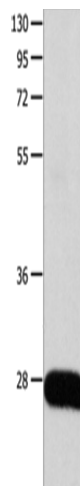
ACTH; CLIP; LPH; MSH; NPP; POC

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Adipocytokine signaling pathway, Melanogenesis

**Product images:**

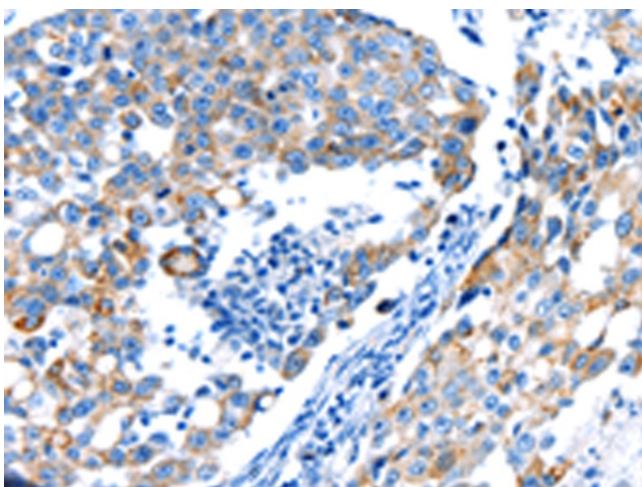
Gel: 10%SDS-PAGE

Lysate: 40 µg

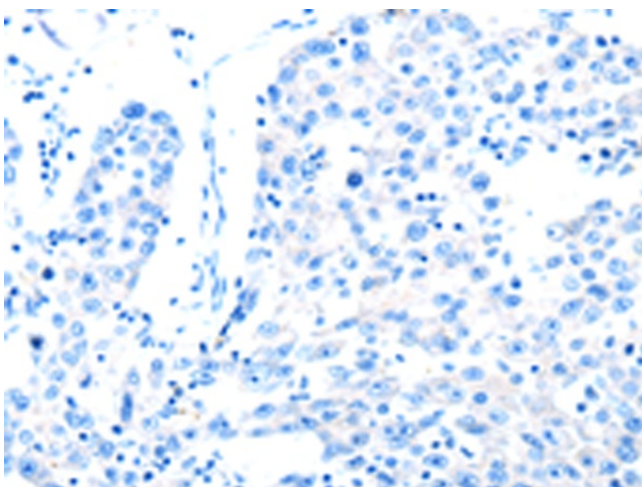
Lane: Human liver cancer tissue

Primary antibody: [TA323526] (POMC Antibody)  
at dilution 1/450Secondary antibody: Goat anti rabbit IgG at  
1/8000 dilution

Exposure time: 1 minute



Immunohistochemistry of paraffin-embedded Human breast cancer tissue using [TA323526] (POMC Antibody) at dilution 1/30 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human breast cancer tissue using [TA323526] (POMC Antibody) at dilution 1/30, treated with synthetic peptide. (Original magnification: ×200)