bs-1848R **[Primary Antibody]**

alpha MSH Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5443 **SWISS:** P01189

Target: alpha MSH

Immunogen: KLH conjugated synthetic peptide derived from human ACTH: 138-150/267.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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. [provided by RefSeq, Jul 2008].

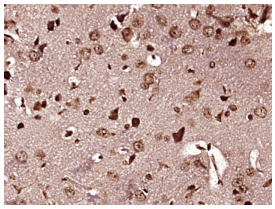
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Mouse, Rat
(predicted: Human, Rabbit)

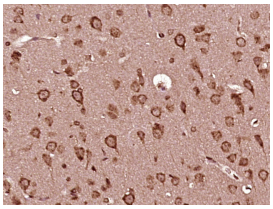
Predicted MW.: 1.4 kDa

Subcellular Location: Secreted

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (alpha MSH) Polyclonal Antibody, Unconjugated (bs-1848R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (alpha MSH) Polyclonal Antibody, Unconjugated (bs-1848R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=7.7]** SuominenAnni. et al. α-Melanocyte-stimulating hormone alleviates pathological cardiac remodeling via melanocortin 5 receptor. EMBO REP. 2024 Mar 07 WB,IHC ;Mouse. 38454158
- **[IF=4.5]** Tzu-Kai Lin. et al. Low-concentration imiquimod treatment promotes enhanced skin barrier functions through epidermal melanization reaction regulation. ENVIRON TOXICOL. 2024 May;: WB ;Mouse. 38760990
- **[IF=3.762]** Andoh T et al. Involvement of α-Melanocyte-Stimulating Hormone-Thromboxane A2 System on Itching in Atopic Dermatitis. Am J Pathol. 2019 Jun 17. pii: S0002-9440(18)31174-X. IHC ;Human&Mouse. 31220451
- **[IF=3.681]** Yurie Shimoda-Komatsu. et al. Digital immunohistological dissection of immune privilege collapse in syringotropic autoimmune diseases: Implication for the pathogenesis. J Dermatol Sci. 2021 Jan;101:30 IHC ;Human. 33183905
- **[IF=4.4]** Elena Forzisi-Kathera-Ibarra. et al. KCNB1-Leptin receptor complexes couple electric and endocrine function in the melanocortin neurons of the hypothalamus. FASEB J. 2024 Oct;38(20):e70111 IF ;Mouse. 39436109