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**Antibody to gamma-1-MSH
RABBIT POLYCLONAL**

Catalog Number: AB-11
Quantity: 100 microliters
Format: Liquid antisera, no preservative
Host: Rabbit
Immunogen: Synthetic gamma-1-MSH

Background:

Melanocyte-stimulating hormone (MSH) is secreted in the anterior region of the pituitary gland. Cells showing gamma-MSH-like immunoreactivity occur in the pituitary (adrenocorticotropin/alpha-MSH cells) as well as in a subpopulation of the noradrenalin-storing cells in the adrenal medulla. The hormone is made up of alpha- (the same as amino acids 1-13 of ACTH), beta-, and gamma-MSH. Causes darkening of the skin by expansion of the melanophores.

Specificity and Preparation:

This antibody recognizes mammalian gamma-1-MSH. Synthetic gamma-1-MSH was used as immunogen. The antibody is routinely tested by dot blot.

Usage and Storage:

Applications include immunocytochemistry (1:1,000-1:20,000),² immunoblotting (ATS in-house; 1:10,000) and radioimmunoassay (1:500,000).^{1,3} Store the antibody at 4°C for one month or -20°C in undiluted aliquots for one year. Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

References:

1. Shibasaki T, Ling N, Guillemin R, Silver M, Bloom F. (1981) The regional distribution of gamma 3-melanotropin-like peptides in bovine brain is correlated with adrenocorticotropin immunoreactivity but not with beta-endorphin. *Reg Peptides* 2:43-52.
2. Bloom FE, Battenberg EL, Shibasaki T, Benoit R, Ling N, Guillemin R. (1980) Localization of gamma-melanocyte stimulating hormone (gamma MSH) immunoreactivity in rat brain and pituitary. *Reg Peptides* 1:205-222.
3. Shibasaki T, Ling N, Guillemin R. (1980) A radioimmunoassay for gamma 1-melanotropin and evidence that the smallest pituitary gamma-melanotropin is amidated at the COOH-terminus. *Biochem Biophys Res Commun* 96(3):1393-1399.