



Product Specification Sheet

Melanocyte Stimulating Hormone Beta Antibody

- Cat # MSHB21-A Rabbit anti- Mouse Melanocyte Stimulating Hormone Beta (MSHB) antibody, affinity purified **SIZE:** 100 ug
 Cat # MSHB21-S Rabbit anti- Mouse Melanocyte Stimulating Hormone Beta (MSHB) antiserum **SIZE:** 100 ul

Melanocyte-stimulating hormone (MSH), also called intermedin or melanotropin, is one of several peptides derived from a protein known as proopiomelanocortin (POMC) and secreted primarily by the pituitary gland. MSH peptides are secreted specifically by the intermediate lobe of the pituitary gland and function primarily in skin darkening, with an array of other, minor activities in most vertebrates.

The MSH peptides include α -MSH, β -MSH, and γ -MSH. They are distinguished from one other by their preferential binding to different melanocortin receptors (MCRs). The α -MSH peptide is derived from the middle region of POMC, whereas β -MSH is derived from the C-terminus (the end containing a carboxyl group) and γ -MSH from the N-terminus (the end containing an amine group). β -Melanocyte-stimulating hormone (MSHB) is an endogenous peptide hormone and neuropeptide. It is an agonist of the MC1, MC3, MC4, and MC5 receptors.

Source of Antigen or Antibodies

Uniprot: P01193

Host: Rabbit

Form: Polyclonal, affinity purified over an antigen column

Immunogen: full length synthetic peptide to MSHB protein

Alternative names: Melanotropin beta

Specificity: Melanocyte Stimulating Hormone Beta

Subcellular Location: Extracellular region

Cross reactivity: 94.1% homology with Rat

Form & Storage of Antibodies/Peptide Control

Affinity pure IgG

Concentration: 0.5 mg/ml Volume: 200 ul

Supplied in PBS + 0.1% BSA

Lyophilized powder

Reconstitute powder in 200 ul distilled water to 0.5 mg/ml

Antiserum

100 ul Solution Lyophilized powder

Reconstitute powder in 100 ul PBS

Storage:

Short-term: 4°C for 1 month

Long-term: at -20°C or below in suitable aliquots after reconstitution for 1 year. Do not expose to multiple freeze/thaw cycles or store working, diluted solutions.

Recommended Usage

Western Blotting: 0.5-2 ug/ml using affinity pure.

ELISA: Assay dependent concentration. Typically 0.1-2.0 ug/ml for capture/detection antibodies.

IHC: 1-5 ug/ml. Antigen retrieval is not necessary

Above concentrations are a suggestion and user's must optimize assay based on their conditions. Antibody may work in other applications such as Flow Cytometry, or IP. These methods have not been tested by ADI.

**This product is for In vitro research use only.*

Related materials available from ADI

Catalog#	Description
SP-103047-5	α -Melanocyte Stimulating Hormone, acetylated-[D-Val13] (11-13) (MSHa) [Ac-Lys-Pro-D-Val-NH ₂ (MW: 383.49)]
SP-58173-5	α -Melanocyte Stimulating Hormone [Met5, Pro6, D-
MSHB21-A	180517AC