



Product Specification Sheet

**Melanocyte Stimulating Hormone Beta Antibody**

- Cat # MSHB11-A Rabbit anti- Human Melanocyte Stimulating Hormone Beta (MSHB) antibody, affinity purified **SIZE:** 100 ug  
 Cat # MSHB11-S Rabbit anti- Human 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  $\alpha$ -MSH,  $\beta$ -MSH, and  $\gamma$ -MSH. They are distinguished from one other by their preferential binding to different melanocortin receptors (MCRs). The  $\alpha$ -MSH peptide is derived from the middle region of POMC, whereas  $\beta$ -MSH is derived from the C-terminus (the end containing a carboxyl group) and  $\gamma$ -MSH from the N-terminus (the end containing an amine group).  $\beta$ -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:** P01189

**Host:** Rabbit

**Form:** Polyclonal, affinity purified over an antigen column

**Immunogen:** Full length synthetic peptide to MSHB

**Alternative names:** Melanotropin beta

**Specificity:** Human Melanocyte Stimulating Hormone Beta

**Subcellular Location:** Extracellular region

**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 PBS to 0.5 mg/ml

**Antiserum**

100 ul  Solution  Lyophilized powder  
Reconstitute powder in 100 ul distilled water

**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, IF, or IHC. These methods have not been tested by ADI.

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

**Related materials available from ADI**

Catalog#	Description
MSHB21-A	Rabbit anti- Mouse Melanocyte Stimulating Hormone Beta (MSHB) antibody, affinity purified
MSHB21-S	Rabbit anti- Mouse Melanocyte Stimulating Hormone
MSHB11-A	180517AC