

Product datasheet

Anti-alpha MSH antibody ab50013

Overview

Product name	Anti-alpha MSH antibody
Description	Rabbit polyclonal to alpha MSH
Host species	Rabbit
Specificity	Anti-a-MSH cross-reacts with des-Ac-a-MSH and [Val-OH13]-a-MSH. Minimal cross-reactivity is observed with human ACTH (1-39) and ACTH (1-24).
Tested applications	Suitable for: RIA
Species reactivity	Reacts with: Human
Immunogen	Synthetic human MSH alpha peptide conjugated to bovine serum albumin. The mid-region sequence of MSH alpha (amino acids 4-10) is identical to the ACTH and MSH beta sequences and highly conserved in the MSH gamma sequence.
General notes	Affinity constant K_a : at least 1×10^9 L/M

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 15mM Sodium Azide Constituents: 0.01M PBS, pH 7.4
Purity	Ion Exchange Chromatography
Purification notes	Whole antiserum is fractionated and then further purified by ion-exchange chromatography to provide the IgG fraction of antiserum that is essentially free of other rabbit serum proteins.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab50013** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
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RIA

Application notes

RIA: 1/3000 (2nd antibody and polyethylene glycol method) using 5-7pg of ¹²⁵I-a-MSH.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

Target

Relevance

Melanocyte-stimulating hormone belongs to a group called the melanocortins. This group includes ACTH, alpha-MSH, beta-MSH and gamma-MSH; these peptides are all cleavage products of a large precursor peptide called pro-opiomelanocortin (POMC). Alpha-MSH is the most important melanocortin for pigmentation. It increases the pigmentation of skin by increasing melanin production in melanocytes.

Cellular localization

Secreted

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