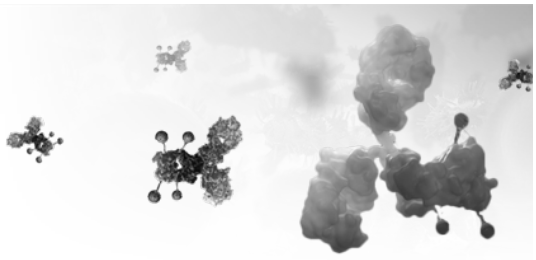

Anti-MC1R (aa 1-100) polyclonal antibody (DPAB-DC1899)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This intronless gene encodes the receptor protein for melanocyte-stimulating hormone (MSH). The encoded protein, a seven pass transmembrane G protein coupled receptor, controls melanogenesis. Two types of melanin exist: red pheomelanin and black eumelanin. Gene mutations that lead to a loss in function are associated with increased pheomelanin production, which leads to lighter skin and hair color. Eumelanin is photoprotective but pheomelanin may contribute to UV-induced skin damage by generating free radicals upon UV radiation. Binding of MSH to its receptor activates the receptor and stimulates eumelanin synthesis. This receptor is a major determining factor in sun sensitivity and is a genetic risk factor for melanoma and non-melanoma skin cancer. Over 30 variant alleles have been identified which correlate with skin and hair color, providing evidence that this gene is an important component in determining normal human pigment variation.
Immunogen	MC1R (AAH07856, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag. The sequence is MAVQGSQRRLLGSLNSTPTAIPQLGLAANQTGARCLEVSISDGLFLSLGLVSLVENALVV ATIAKNRNLHSPMYCFICCLALSDLLVSGSNVLETAVILL
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None

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Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	MC1R melanocortin 1 receptor (alpha melanocyte stimulating hormone receptor) [Homo sapiens (human)]
Official Symbol	MC1R
Synonyms	MC1R; melanocortin 1 receptor (alpha melanocyte stimulating hormone receptor); CMM5; MSH-R; SHEP2; melanocyte-stimulating hormone receptor; MC1-R; melanotropin receptor;
Entrez Gene ID	4157
Protein Refseq	NP_002377
UniProt ID	Q01726
Chromosome Location	16q24.3
Pathway	Chaperonin-mediated protein folding; Cooperation of Prefoldin and TriC/CCT in actin and tubulin folding; G alpha (s) signalling events; GPCR ligand binding
Function	G-protein coupled peptide receptor activity; melanocortin receptor activity; melanocyte-stimulating hormone receptor activity; protein binding

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