

## Product datasheet for **TA321479**

### MC1 Receptor (MC1R) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 50-200 Positive control: Human colon cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from 301-315 amino acids of human melanocortin 1 receptor (alpha melanocyte stimulating hormone receptor)
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	melanocortin 1 receptor
Database Link:	<a href="#">NP_002377</a> <a href="#">Entrez Gene 17199 Mouse</a> <a href="#">Entrez Gene 4157 Human</a> <a href="#">Q01726</a>



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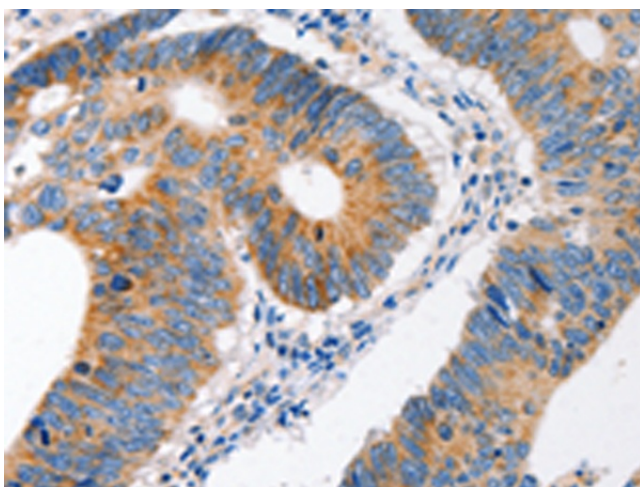
**Background:** This intronless gene encodes the receptor protein for melanocyte-stimulating hormone (MSH). The encoded protein; a seven pass transmembrane G protein coupled receptor; controls melanogenesis. Two types of melanin exist: red pheomelanin and black eumelanin. Gene mutations that lead to 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.

**Synonyms:** CMM5; MSH-R; SHEP2

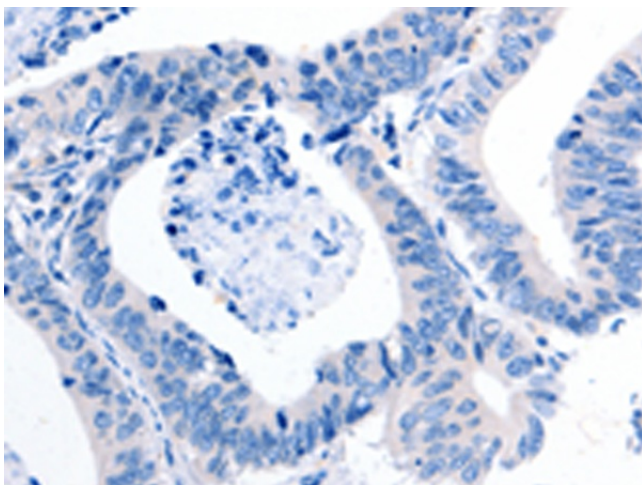
**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** Melanogenesis, Neuroactive ligand-receptor interaction

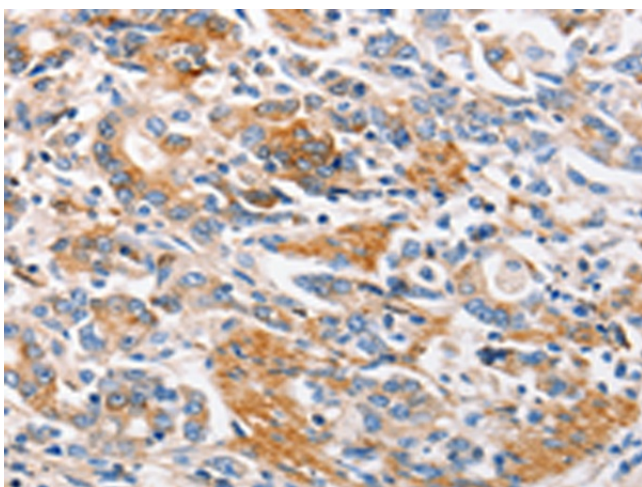
### Product images:



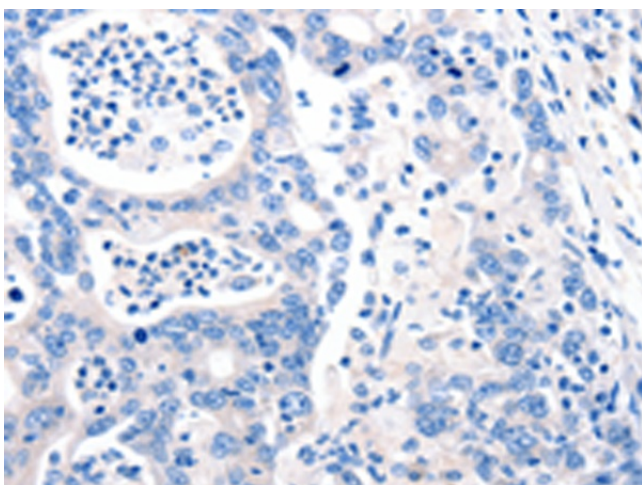
Immunohistochemistry of paraffin-embedded Human colon cancer tissue using TA321479 (MC1R Antibody) at dilution 1/100 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human colon cancer tissue using TA321479 (MC1R Antibody) at dilution 1/100, treated with synthetic peptide. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using TA321479 (MC1R Antibody) at dilution 1/100 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using TA321479 (MC1R Antibody) at dilution 1/100, treated with synthetic peptide. (Original magnification:  $\times 200$ )