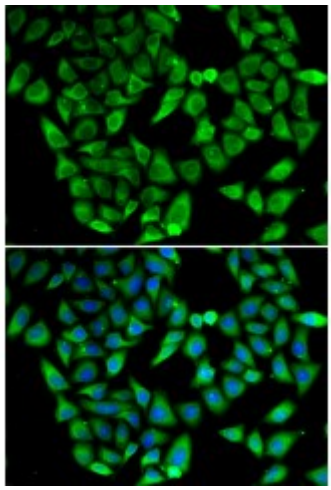
Anti-ASIP Antibody



Description	In mice, the agouti gene encodes a paracrine signaling molecule that causes hair follicle melanocytes to synthesize pheomelanin, a yellow pigment, instead of the black or brown pigment, eumelanin. Pleiotropic effects of constitutive expression of the mouse gene include adult-onset obesity, increased tumor susceptibility, and premature infertility. This gene is highly similar to the mouse gene and encodes a secreted protein that may (1) affect the quality of hair pigmentation, (2) act as a pharmacological antagonist of alpha-melanocyte-stimulating hormone, (3) play a role in neuroendocrine aspects of melanocortin action, and (4) have a functional role in regulating lipid metabolism in adipocytes.

Model	STJ115245
Host	Rabbit
Reactivity	Human
Applications	IF
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 23-132 of human ASIP (NP_001663.2).
Gene ID	434
Gene Symbol	ASIP
Dilution range	IF 1:50 - 1:200
Tissue Specificity	Expressed in adipose tissue, testis, ovary and heart and at lower levels in liver, kidney and foreskin
Purification	Affinity purification
Note	For Research Use Only (RUO).

Protein Name	Agouti-signaling protein ASP Agouti switch protein
Molecular Weight	14.515 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:745OMIM:600201
Alternative Names	Agouti-signaling protein ASP Agouti switch protein
Function	Involved in the regulation of melanogenesis, The binding of ASP to MC1R precludes alpha-MSH initiated signaling and thus blocks production of cAMP, leading to a down-regulation of eumelanogenesis (brown/black pigment) and thus increasing synthesis of pheomelanin (yellow/red pigment), In higher primates, agouti may affect the quality of hair pigmentation rather than its pattern of deposition, Could well play a role in neuroendocrine aspects of melanocortin action, May have some functional role in regulating the lipid metabolism with adipocytes
Cellular Localization	Secreted