KiSS-1 (C-20): sc-18134

**BACKGROUND**

KiSS-1 is a 145 amino acid human protein that suppresses metastases of melanomas and breast carcinomas without affecting tumorigenicity. The human KiSS-1 gene maps to chromosome 1q32.1 and consists of four exons. Transcripts for human KiSS-1 are predominantly expressed in the brain and placenta. KiSS-1 protein contains a polyproline-rich domain (SH3 ligand) and a putative protein kinase C-α phosphorylation site. KiSS-1 may regulate events downstream of cell-matrix adhesion in mechanisms involving cytoskeletal reorganization. Expression of KiSS-1 reduces the level of NFκB p50/p65 binding to the MMP-9 promoter and correlates with diminished expression of the 92 kDa type IV collagenase (MMP-9). KiSS-1 displays agonist activity on the orphan G protein-coupled receptor GPR54.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: KISS1 (human) mapping to 1q32.1; Kiss1 (mouse) mapping to 1 E4.

**SOURCE**

KiSS-1 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of KiSS-1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-18134 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

KiSS-1 (C-20) is recommended for detection of KiSS-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

KiSS-1 (C-20) is also recommended for detection of KiSS-1 in additional species, including bovine and porcine.

Suitable for use as control antibody for KiSS-1 siRNA (h): sc-37443, KiSS-1 siRNA (m): sc-146490, KiSS-1 shRNA Plasmid (h): sc-37443-SH, KiSS-1 shRNA Plasmid (m): sc-146490-SH, KiSS-1 shRNA (h)Lentiviral Particles: sc-37443-V and KiSS-1 shRNA (m) Lentiviral Particles: sc-146490-V.

Molecular Weight of KiSS-1: 15 kDa.

Positive Controls: mouse testis extract: sc-2405.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**DATA**

KiSS-1 (C-20) sc-18134. Western blot analysis of KiSS-1 expression in mouse testis tissue extract.

**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

Try KiSS-1 (24-Q): sc-101246, our highly recommended monoclonal alternative to KiSS-1 (C-20).