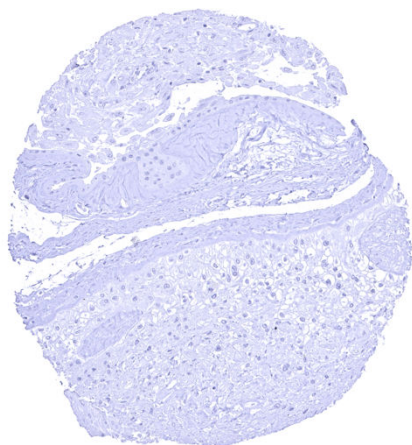


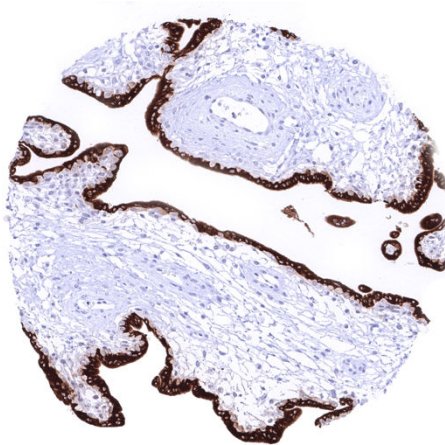
Anti- Kiss1 Antibody HMV3972 / Recombinant Rabbit monoclonal

Human SwissProt	Q15726
Human Gene Symbol	KISS1
Synonyms	KISS-1 metastasis suppressor , HH13 , KISS-1
Specificity	KISS1
Immunogen	Recombinant human KISS1 fragment
Isotype	Rabbit / IgG
Species Reactivity	Human
Localization	Secreted

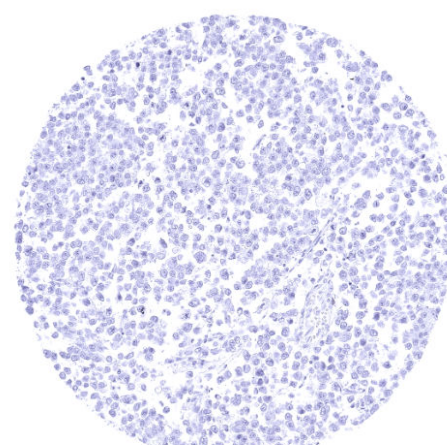
Storage & Stability	Antibody with azide – store at 2 to 8 C. Antibody without azide – store at -20 to -80 C. Antibody is stable for 24 months. Non-hazardous. No MSD required.
Supplied As	Purified antibody from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with <1% BSA & <0.1% azide. Antibody concentrate is optimized for dilution within dilution range using commercially available antibody diluent for IHC.
Positive Control	Placenta (mature): A strong KISS1 staining should be seen in the cytotrophoblast while stroma cells remain negative.
Negative Control	Kidney: KISS1 staining should be completely absent in all cells (note: other tissues can also be used as negative controls in case of KISS1).



Amnion and chorion cells of the placenta lack KISS1 staining



First trimester placenta showing an intense cytoplasmic KISS1 staining of syncytiotrophoblast cells



Testicular seminoma completely lacking KISS1 staining

Biology

KISS1 (kisspeptin) is a 145 amino acid protein which is coded by the KISS1 gene on chromosome 1q32.1. KISS1 is typically located in the cytoplasm. It is later released to the serum where it is converted into multiple smaller fragments called kisspeptins (KPs). These contain either 54, 14, 13, or 10 amino acids and they are named accordingly as kisspeptin-54, kisspeptin-14, kisspeptin-13, or kisspeptin-10. They all contain a highly similar conserved ten amino acid region at the C-terminal end which is known to have neuropeptide cleaving properties. All KPs and KISS1 have been demonstrated to constitute efficient positive regulators of the reproductive neuroendocrine axis in the brain. However, only few specific regions show KISS1 expression in the brain. Among extracranial normal tissues KISS1 is solely expressed in syncytiotrophoblast cells of the placenta. KISS1 is believed to play a pivotal role in the regulation of tissue invasive properties of the early placenta. KISS1 is also thought to play a (variable) role in cancer invasiveness and metastasis. Evidence suggests that – depending on the tumor type - KISS1 may exert either a tumor promoting or a tumor suppressive role. KISS1 expression has been described to occur in several cancer types.

Potential Research Applications

- The KISS1 expression pattern in different tumors and its clinical significance is unknown.
- Studies are needed to explore the tumor suppressive or tumor-promoting roles of KISS1 in cancer

Protocol Suggestions

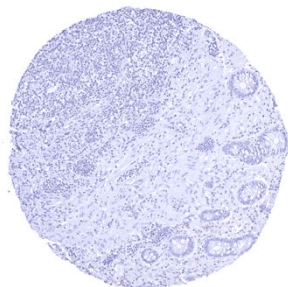
1:100 – 1:200 ; pH 7,8 is optimal. Freshly cut sections should be used (more than 10 days between cutting and staining deteriorates staining intensity for most antibodies in IHC).

Limitations

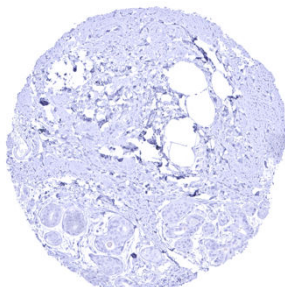
This antibody is available for **research use only** and is not approved for use in diagnostics.

Warranty

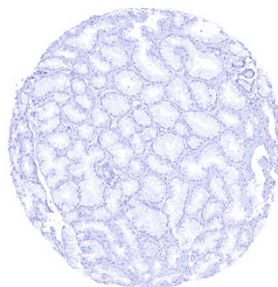
There are no warranties, expressed or implied, which extend beyond this description. MSVA is not liable for any personal injury or economic loss resulting from this product.



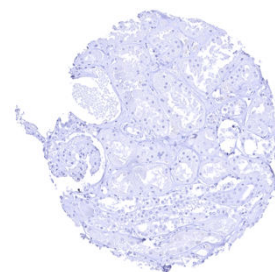
Appendix, mucosa



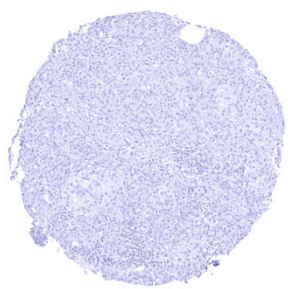
Breast



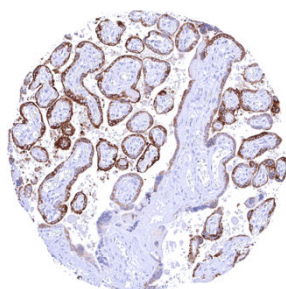
Duodenum, Brunner gland



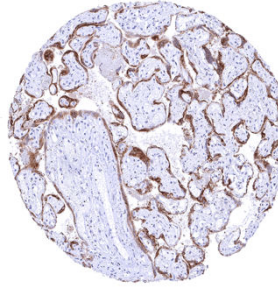
Kidney, cortex



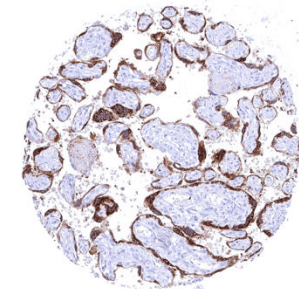
Pancreas



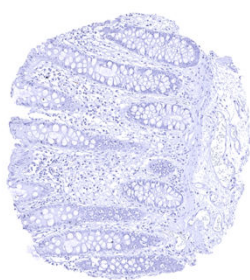
Placenta, mature – Strong cytoplasmic KISS1 staining of most cells of the syncytiotrophoblast..



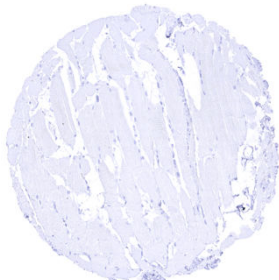
Placenta, mature – Strong cytoplasmic KISS1 staining of the majority of the syncytiotrophoblast cells.



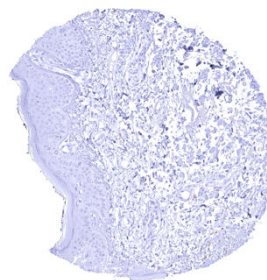
Placenta, mature – Strong cytoplasmic KISS1 staining of the syncytiotrophoblast.



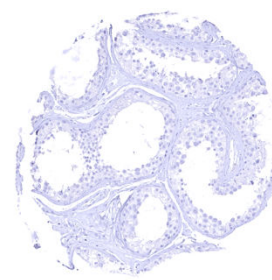
Rectum, mucosa



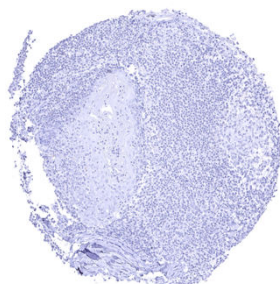
Skeletal muscle



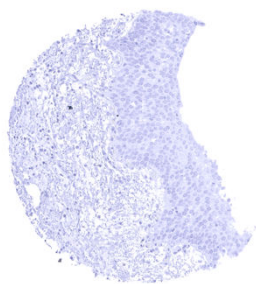
Skin



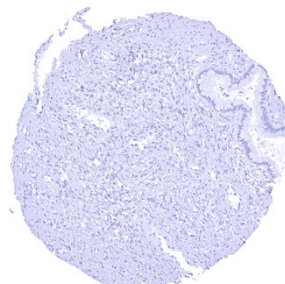
Testis



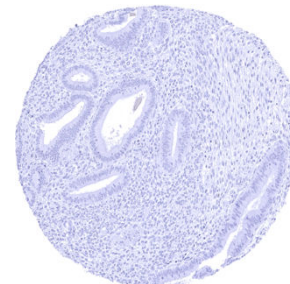
Tonsil



Urinary bladder, urothelium



Uterus, endocervix



Uterus, endometrium (proliferation)