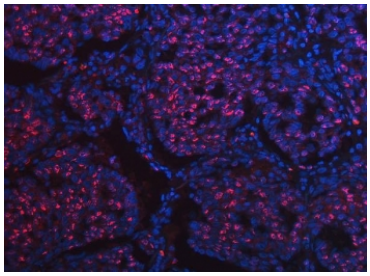
SCML1 Antibody / Sex comb on midleg-like protein 1 (RQ7487)

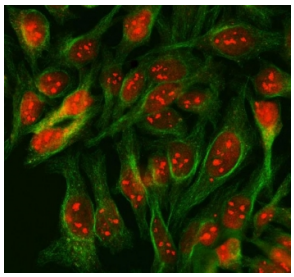
Catalog No.	Formulation	Size
RQ7487	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

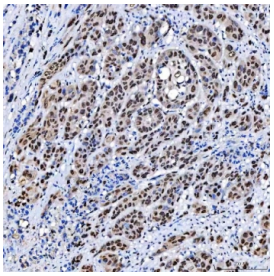
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9UN30
Localization	Nuclear
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This SCML1 antibody is available for research use only.



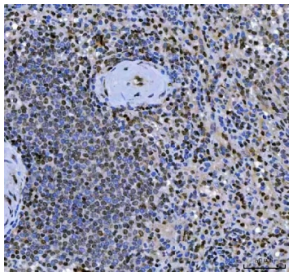
Immunofluorescent staining of FFPE human lung squamous cell carcinoma tissue with SCML1 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



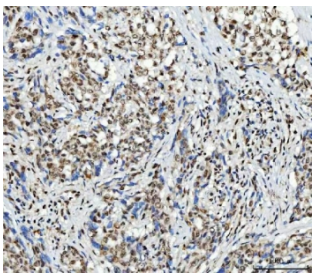
Immunofluorescent staining of FFPE human HeLa cells with SCML1 antibody (red) and Alpha Tubulin mAb (green). HIER: steam section in pH6 citrate buffer for 20 min.



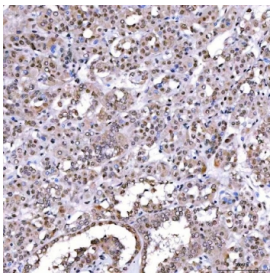
IHC staining of FFPE human prostate cancer tissue with SCML1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



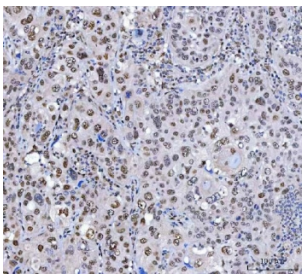
IHC staining of FFPE human spleen tissue with SCML1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



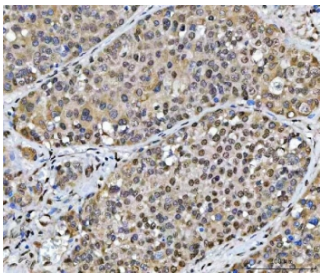
IHC staining of FFPE human lung adenocarcinoma tissue with SCML1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



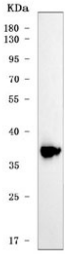
IHC staining of FFPE human thyroid cancer tissue with SCML1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



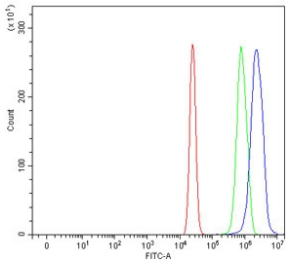
IHC staining of FFPE human laryngeal squamous cell carcinoma tissue with SCML1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human liver cancer tissue with SCML1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human A431 cell lysate with SCML1 antibody. Predicted molecular weight ~37 kDa.



Flow cytometry testing of human U-2 OS cells with SCML1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= SCML1 antibody.

Description

Putative Polycomb group (PcG) proteins assemble into multimeric protein complexes, which are involved in maintaining the transcriptional repressive state of genes over successive cell generations. SCML1 (sex comb on midleg-like 1 (Drosophila)), is a 329 amino acid PcG protein belonging to the SCM family. Localizing to nucleus, SCML1 plays a role in testis development, spermatogenesis and embryonal development. While ubiquitously expressed, SCML1 is found at highest levels in adult skeletal muscle, heart and fetal liver. SCML1 contains one SAM (sterile alpha motif) domain and is encoded by a gene that spans 18 kb, contains 6 exons, maps to human chromosome Xp22.13, and is transcribed from telomere to centromere. Three SCML1 isoforms exist as a result of alternative splicing events.

Application Notes

Optimal dilution of the SCML1 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids E8-K322) was used as the immunogen for the SCML1 antibody.

Storage

After reconstitution, the SCML1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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