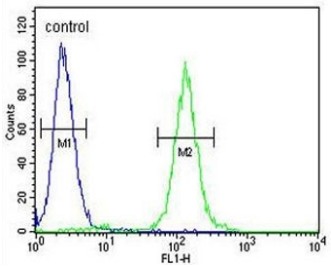
KMT5C Antibody / SUV420H2 (F55096)

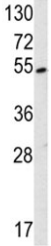
Catalog No.	Formulation	Size
F55096-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F55096-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

Availability	1-2 business days
Species Reactivity	Human, Mouse
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
UniProt	Q86Y97
Applications	Western Blot : 1:500-1:1000 Flow Cytometry : 1:10-1:50 per million cells in 0.1ml
Limitations	This KMT5C antibody is available for research use only.



Flow cytometry testing of fixed and permeabilized human HEK293 cells with KMT5C antibody; Blue=isotype control, Green= KMT5C antibody.



Western blot testing of mouse stomach tissue lysate with KMT5C antibody. Predicted molecular weight ~52 kDa.

Description

KMT5C, also called Suppressor of variegation 4-20 homolog 2, Su(var)4-20 homolog 2 and Suv4-20h2, belongs to a family of proteins called lysine methyltransferases, which are enzymes that play a key role in the modification of histone proteins. Histones are proteins that help package and organize DNA in the nucleus of a cell, and modifications to these proteins can have profound effects on gene expression. Studies have shown that KMT5C specifically targets histone H4 lysine 20 (H4K20) for methylation, which has been linked to the regulation of gene transcription and DNA replication. Dysregulation of this process has been implicated in various diseases, including cancer and developmental disorders. In cancer, aberrant expression of KMT5C has been observed in several tumor types, and its overexpression has been associated with poor prognosis. Mutations in the KMT5C gene have been linked to developmental disorders, such as intellectual disability and autism spectrum disorders. These findings highlight the importance of KMT5C in brain development and function, and provide new insights into the underlying mechanisms of these conditions.

Application Notes

The stated application concentrations are suggested starting points. Titration of the KMT5C antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 195-220 from the human protein was used as the immunogen for the KMT5C antibody.

Storage

Aliquot the KMT5C antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.