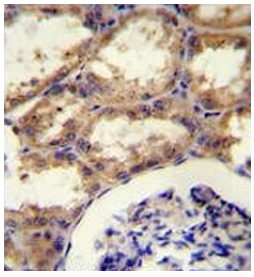
Septin 9 Antibody / SEPT9 (F54300)

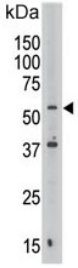
Catalog No.	Formulation	Size
F54300-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54300-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

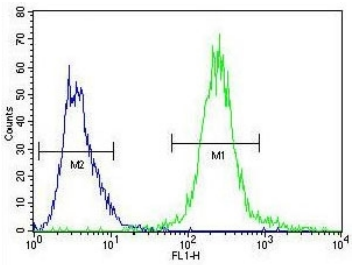
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	Q9UHD8
Localization	Cytoplasmic
Applications	Western Blot : 1:500-1:2000 Immunohistochemistry (FFPE) : 1:25 Flow Cytometry : 1:25 (1x10e6 cells)
Limitations	This Septin 9 antibody is available for research use only.



IHC testing of FFPE human kidney tissue with Septin 9 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Western blot testing of human Jurkat lysate with Septin 9 antibody. Predicted molecular weight: 63-65 kDa (multiple isoforms).



Flow cytometry testing of fixed and permeabilized human HepG2 cells with Septin 9 antibody; Blue=isotype control, Green= Septin 9 antibody.

Description

The maf oncogene was identified by structural analysis of the AS42 avian transforming retrovirus genome. The Maf family is divided into two subclasses, large Mafs (vMaf, cMaf, MafB and Nrl) and small Mafs (MafF, MafK, and MafG). Both subclasses contain leucinezipper motifs, which allow homodimerization as well as heterodimerization with a variety of other bZip transcription factors. Large Mafs also contain an acidic transactivation domain absent in the small Maf proteins. Although they do not possess inherent transactivation activity, small Maf proteins can act as positive regulators of transcription by targeting transcriptionally active dimerization partners to specific DNA regulatory elements. Conversely, small Mafs can act also as negative regulators of transcription by recruiting transcriptional repressors or by forming homodimers that can replace active dimers. Human MafF was isolated in a yeast one-hybrid system from a human myometrium cDNA library. Human MAFF encodes a 164 amino acids proten. Like other small MAFF proteins, it contains an extended leucine zipper structure and lacks an N-terminal transactivating domain. The three small Maf proteins have been implicated in a number of physiological processes, including development, differentiation, haematopoiesis and stress response. Interestingly, these three proteins regulate the stress response via different mechanisms.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Septin 9 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 57-85 from the human protein were used as the immunogen for the Septin 9 antibody.

Storage

Aliquot the Septin 9 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.