

SMYD4 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11581B**Specification**

SMYD4 Antibody (C-term) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	Q8IYR2
Other Accession	NP_443160.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	89225
Antigen Region	541-568

SMYD4 Antibody (C-term) - Additional Information**Gene ID** 114826**Other Names**

SET and MYND domain-containing protein 4, 211-, SMYD4, KIAA1936

Target/Specificity

This SMYD4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 541-568 amino acids from the C-terminal region of human SMYD4.

Dilution

WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SMYD4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SMYD4 Antibody (C-term) - Protein Information**Name** SMYD4

Synonyms KIAA1936

Function Plays a critical role in cardiac development (PubMed:[30110327](#)). Acts as a key epigenetic regulator of gene expression during cardiac development via its dual activities as a methyltransferase and negative regulator of HDAC1 (By similarity).

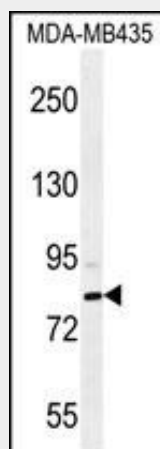
Cellular Location

Nucleus {ECO:0000250|UniProtKB:Q8BTK5}. Cytoplasm {ECO:0000250|UniProtKB:Q8BTK5}

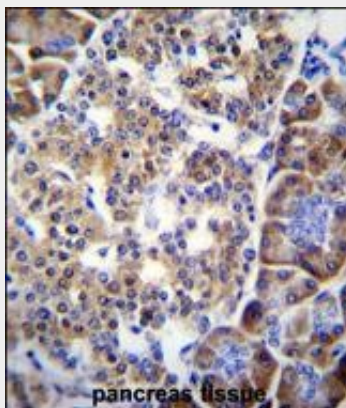
SMYD4 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

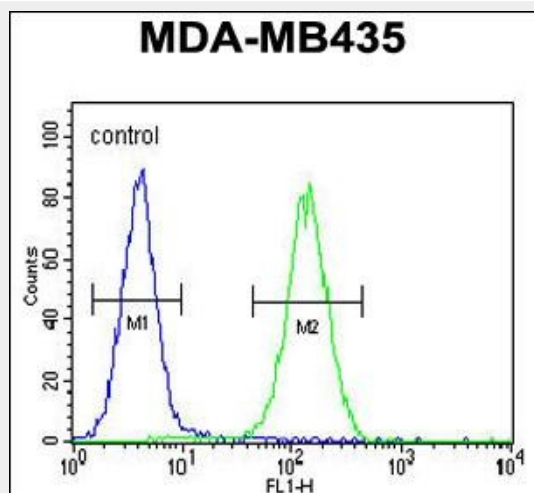
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SMYD4 Antibody (C-term) - Images

SMYD4 Antibody (C-term) (Cat. #AP11581b) western blot analysis in MDA-MB435 cell line lysates (35ug/lane). This demonstrates the SMYD4 antibody detected the SMYD4 protein (arrow).



SMYD4 Antibody (C-term) (Cat. #AP11581b) immunohistochemistry analysis in formalin fixed and paraffin embedded human pancreas tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of SMYD4 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



SMYD4 Antibody (C-term) (Cat. #AP11581b) flow cytometric analysis of MDA-MB435 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

SMYD4 Antibody (C-term) - Background

The specific function of the protein remains unknown.

SMYD4 Antibody (C-term) - References

O'Seaghdha, C.M., et al. Hum. Mol. Genet. 19(21):4296-4303(2010)
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Hu, L., et al. Cancer Res. 69(9):4067-4072(2009)