

Rabbit anti-Human SMYD1 Polyclonal Antibody | anti-SMYD1 antibody

Anti-SMYD1 Antibody, Rabbit Polyclonal

CATALOG # AAA256432	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

SMYD1; Polyclonal Antibody; Anti-SMYD1 Antibody; Rabbit Polyclonal; SMYD1 Antibody; Rabbit PAb; Antigen Affinity Purified; SET and MYND domain containing 1; Anti-BOP Antibody; Anti-KMT3D Antibody; Anti-ZMYND18 Antibody; Anti-ZMYND22 Antibody; anti-SMYD1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human SMYD1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-SMYD1 antibody	IHC (Immunohistochemistry)
Immunogen	E Coli-derived Human SMYD1 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human SMYD1 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunochemical staining of human SMYD1 in cynomolgus heart with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of human SMYD1 in human skeletal muscle with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-SMYD1 antibody	SET and MYND Domain 1 (SMYD1) is a cardiac-and muscle-specific histone methyltransferase that methylates histone H3 at lysine 4 and regulates gene transcription in early heart development. SMYD1 is critical for both embryonic and adult heart development and function in both mice and men. The unique domain structure characterized by a "split" SET domain, a conserved MYND zinc finger, and a novel C-terminal domain (CTD) distinguishes SmyD1 from other SET domain-containing methyltransferases. SMYD1 is a key regulator of myogenic differentiation and acts as a downstream target of muscle regulatory factors, serum response factor (SRF), and myogenin. Zebrafish SmyD1 is a SET and MYND domain-containing protein that plays an important role in myofiber maturation and muscle contraction. SmyD1 is required for myofibril organization and sarcomere assembly during myofiber maturation.
References	Sirinupong N, et al. (2010) Crystal structure of cardiac-specific histone methyltransferase smyd1 reveals unusual active site architecture. J Biol Chem 285 (52): 40635-40644.Rasmussen TL, et al. (2018) Loss of smyd1 results in perinatal lethality via selective defects within myotonic muscle descendants. Diseases 7 (1): 1.Li D, et al. (2009) Smyd1, the myogenic activator, is a direct target of serum response factor and myogenin. Nucleic Acids Res 37 (21): 7059-7071.Du SJ, et al. (2006) Muscle-specific expression of the smyd1 gene is controlled by its 5.3-kb promoter and 5'-flanking sequence in zebrafish embryos. Dev Dyn 235 (12): 3306-3315.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/smyd1-antibody-immunohistochemistry-elisa/256432>