

SMYD3 Polyclonal Antibody

Catalog NumberPA5-34890

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	ChIP assay (ChIP)	Assay-dependent
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
Immunogen	Recombinant protein fragment contains a sequence corresponding to a region within amino acids 21 and 416 of SMYD3	Immunoprecipitation (IP)	1:100-1:500
		Western Blot (WB)	1:500-1:3,000
Conjugate	Unconjugated	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Concentration	1 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS, pH 7, with 1% BSA, 20% glycerol		
Contains	0.01% thimerosal		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Recommended positive controls: A549, DDDDK-tagged SMYD3-transfected 293T. Predicted reactivity: Human (99%), Mouse (93%), Rat (95%), Pig (95%), Rhesus Monkey (99%), Bovine (83%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

SMYD3 (histone-lysine N-methyltransferase) methylates Lys-4 of histone H3 and Lys-5 of histone H4. It induces di- and tri-methylation. SMYD3 plays an important role in transcriptional activation as a member of an RNA polymerase complex.

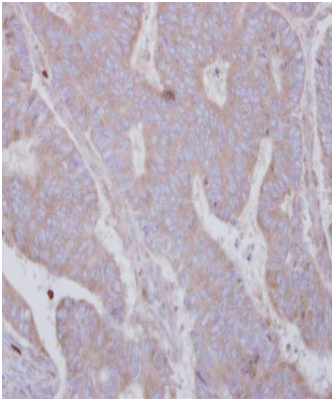
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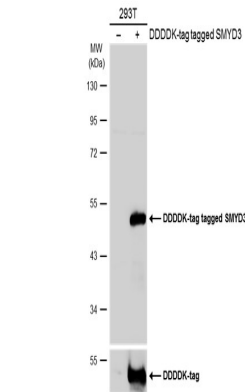
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Product Images For SMYD3 Polyclonal Antibody



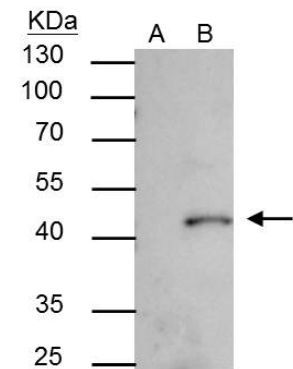
SMYD3 Antibody (PA5-34890) in IHC (P)

Immunohistochemical analysis of paraffin-embedded human colon carcinoma, using SMYD3 (Product # PA5-34890) antibody at 1:250 dilution. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.



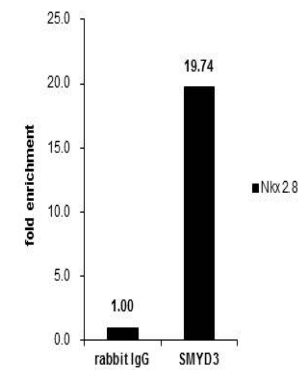
SMYD3 Antibody (PA5-34890) in WB

Western Blot analysis of SMYD3 was performed by separating 30 µg of non-transfected (–) and transfected (+) 293T whole cell extracts by 10% SDS-PAGE. Proteins were transferred to a membrane and probed with a SMYD3 Polyclonal Antibody (Product # PA5-34890) at a dilution of 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



SMYD3 Antibody (PA5-34890) in IP

SMYD3 Polyclonal Antibody immunoprecipitates SMYD3 protein in IP experiments. IP Sample: 293T whole cell lysate /extract A : Control with 2.5 µg of pre-immune rabbit IgG B : Immunoprecipitation of SMYD3 by 2.5 µg of SMYD3 Polyclonal Antibody (Product # PA5-34890) 10% SDS-PAGE The immunoprecipitated SMYD3 protein was detected by SMYD3 Polyclonal Antibody (Product # PA5-34890) diluted at 1:1,000. Anti-rabbit IgG (HRP) was used as a secondary reagent.



SMYD3 Antibody (PA5-34890) in ChIP

Cross-linked ChIP was performed with HepG2 chromatin extract and 5 µg of either control rabbit IgG or SMYD3 Polyclonal Antibody (Product # PA5-34890). The precipitated DNA was detected by PCR with primer set targeting to 5 flanking region of Nkx2.8.

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