

## SMYD3 Rabbit Polyclonal Antibody

### Catalog #: EAB22280

Host/Isotype	Clonality	Applications	MW (kDa)	Reactivity
Rabbit IgG	Polyclonal	WB, IHC-P, IF/ICC, ELISA	49	Human, Mouse, Rat

### Applications Dilutions

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

WB(Western Blotting)	1:500-2000
IHC-P(Immunohistochemistry-Paraffin)	1:50-300
IF/ICC(Immunofluorescence/Immunocytochemistry)	1:50-300

### Product Information

Conjugate	Unconjugate
Specificity	SMYD3 Rabbit Polyclonal Antibody detects endogenous levels of SMYD3 protein.
Purification	Affinity purification
Concentration	1mg/ml
Format	Liquid
Formulation	In PBS, pH 7.4, Containing 0.02% sodium azide, 0.5% BSA and 50% Glycerol
Shipping	Gel Pack
Storage	Store at -20°C least 1 year from the date of shipment. Avoid repeated freeze/thaw cycles. Aliquots may be stored at +4°C for 1-2 weeks
UniProt ID	<a href="#">Q9H7B4</a>
Entrez-Gene ID	<a href="#">64754</a>

### Product Description

SET and MYND domain-containing 3 (SMYD3), a 428-amino acid protein, is a member of an RNA polymerase complex and plays a role in transcriptional regulation. SMYD3 methylates Lys-4 of Histone H3, a specific tag for epigenetic transcriptional activation. The SMYD3 protein contains an N-terminal MYND-type zinc finger domain, followed by a SET domain, which shows methyltransferase activity. The presence of the heatshock protein HSP 90A greatly enhances SMYD3's methyltransferase activity. SMYD3 is expressed in testis and skeletal muscles and is over-expressed in a majority of colorectal carcinomas (CRCs), hepatocellular carcinomas (HCCs) as well as breast carcinomas (BCs). Inhibition of SMYD3 is a potential chemotherapeutic strategy.

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